Express Mail No: EL676518511US
Docket No. 600-1-258DIV
Applicants: Darst and Zhang

## Appendix

## Table 3

```
REMARK coordinates from minimization refinement
 REMARK refinement resolution: 100.0 - 3.2 A
REMARK starting r= 0.3631 free_r= 0.4208
REMARK final r= 0.3466 free_r= 0.4154
 REMARK rmsd bonds= 0.009443 rmsd angles= 1.93913
 REMARK wa= 16.2281
 REMARK target= mlf cycles= 1 steps= 250
 REMARK sg= P4(1)2(1)2 a= 200.76 b= 200.76 c= 292.938 alpha= 90 beta= 90 gamma= 90
REMARK parameter file 1 : CNS_TOPPAR:protein_rep.param REMARK parameter file 2 : CNS_TOPPAR:ion.param
 REMARK molecular structure file: ../pdb/rnap_m3_gen.mtf
REMARK input coordinates: ./bgroup/bg1.pdb
REMARK reflection file= ././fobs/scale_b25.cv
 REMARK ncs= restrain ncs file= ../ncs100.def
REMARK B-correction resolution: 8.0 - 3.2
REMARK B-correction resolution: 8.0 - 3.2

REMARK initial B-factor correction applied to f_scale:

REMARK B11= 0.112 B22= 0.112 B33= -0.224

REMARK B12= 0.000 B13= 0.000 B23= 0.000

REMARK B-factor correction applied to coordinate array B: 0.067

REMARK bulk solvent: density level= 0.315481 e/A^3, B-factor= 300 A^2

REMARK reflections with |Fobs| / Sigma_F < 0.0 rejected

REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected

REMARK theoretical total number of refl. in resol. range: 98907 (
REMARK number of unobserved reflections (no entry or |Fl=0): 5201 (
                                                                                              98907 ( 100.0 % )
5201 ( 5.3 % )
REMARK number of unobserved reflections (no entry or |F|=0): REMARK number of reflections rejected:
                                                                                                    0
REMARK total number of reflections used:
                                                                                              93706 (
                                                                                                           94.7 %
REMARK total number or reflections used:

REMARK number of reflections in working set:

REMARK number of reflections in test set:

4
CRYST1 200.760 200.760 292.938 90.00 90.00 90.00 P 41 21 2
REMARK FILENAME="min1_100-3.2.pdb"
                                                                                              88974 (
                                                                                                           90.0
                                                                                               4732 (
                                                                                                             4.8
REMARK VERSION: 0.4a
                                                                        73.985
ATOM
                   CB ALA A
                                                  1.632
                                                            67.447
                                                                                    1.00 51.08
                   C
MOTA
                          ALA A
                                      6
                                                  1.498
                                                            65.047
                                                                        73.318
                                                                                    1.00100.07
                                                  2.714
1.065
                                                            64.811
65.705
ATOM
                          ALA A
                                      6
6
                                                                        73.324
                                                                                    1.00100.07
ATOM
                   N
                          ALA A
                                                                        75.679
                                                                                    1.00100.07
                   CA
                                     6
ATOM
                         ALA A
                                                  0.907
                                                                        74.245
72.515
71.564
                                                            66.105
                                                                                    1.00100.07
                                                            64.425
                   N
                          ALA A
MOTA
                                     7
7
7
7
7
                                                  0.639
                                                                                    1.00 85.24
1.00 85.24
ATOM
                         ALA A
                                                  1.075
                                                            63.413
               Я
MOTA
                   CB
                         ALA A
                                                  1.051
                                                            62.030
                                                                        72.216
                                                                                    1.00 14.75
MOTA
                   C
0
                          ALA A
                                                 0.130
                                                            63.450
                                                                        70.380
                                                                                    1.00 85.24
ATOM
ATOM
              10
                          ALA A
                                                -0.677
0.242
                                                            64.368
                                                                        70.252
                                                                                    1.00 85.24
                   N
                                     8
                                                                        69.519
68.340
68.673
67.786
              11
                          ALA A
                                                            62.448
62.342
                                                                                    1.00100.07
ATOM
                   CA
                                     8
                         ALA A
                                                -0.605
                                                                                    1.00100.07
ATOM
                   CB
                                                            61.513
                         ALA A
                                                -1.848
ATOM
             14
                          ALA A
                                     8
                                                -1.025
                                                            63.704
                                                                                    1.00100.07
                   O
N
CD
ATOM
ATOM
             15
                          ALA A
                                     8
9
                                                -2.031
                                                            64.276
                                                                        68.207
                                                                                    1.00100.07
                          PRO A
                                                -0.248
1.082
-0.561
             16
                                                            64.248
                                                                        66.841
                                                                                    1.00 56.97
ATOM
                         PRO A
                                                            63.783
65.545
65.969
                                                                                    1.00100.07
             17
                                                                        66.416
                   CA
ATOM
                         PRO A
                                                                        66.236
                                                                                    1.00 56.97
                                                                        65.640
                                                                                    1.00100.07
ATOM
                          PRO A
                                                 0.774
ATOM
             20
                         PRO A
                                                 1.355
                                                                        65.227
                                                            64.665
                                                                                    1.00100.07
                  C
O
N
CA
ATOM
                         PRO A
                                     9
                                                -1.661
                                                            65.430
                                                                        65.188
                                                                                    1.00 56.97
             22
                                     9
ATOM
                         PRO A
                                                -2.702
                                                            64.838
                                                                        65.445
                                                                                    1.00 56.97
                         VAL A
                                                -1.419
ATOM
                                    10
                                                            65.997
                                                                        64.011
                                                                                    1.00 83.69
                                    10
ATOM
                         VAL A
                                                            65.972
67.218
67.287
                                               -2.377
-3.291
                                                                        62.907
                                                                                    1.00 83.69
                   CB
                                    10
ATOM
                         VAL A
                                                                        62.930
                                                                                    1.00 46.48
                   CG1
                         VAL A
MOTA
                                                -4.123
                                                                        61.657
                                                                                    1.00 46.48
1.00 46.48
ATOM
             27
                   CG2 VAL A
                                                -4.196
                                                            67.180
                                                                        64.147
ATOM
                         VAL A
                                                -1.555
                                                                                    1.00 83.69
                                                            66.004
                                                                        61.625
ATOM
ATOM
             29
30
                  ИО
                         VAL A
PHE A
                                   10
                                                -0.401
                                                            66.437
                                                                        61.637
                                                                                    1.00 83.69
                                               -2.129
-1.393
-0.988
                                                           65.546
65.576
64.172
                                   11
                                                                        60.519
                                                                                    1.00
                                                                                           35.63
ATOM
             31
                   CA
                         PHE A
                                                                        59.273
58.831
57.943
                                    11
                                                                                    1.00 35.63
                   СВ
ATOM
                         PHE A
                                    11
                                                                                    1.00100.07
ATOM
             33
                         PHE A
                                                 0.221
                                                            64.162
                                                                                    1.00100.07
ATOM
             34
                   CD1 PHE A
                                   11
                                                 1.403
                                                            64.764
                                                                                    1.00100.07
                                                                        58.368
ATOM
             35
                   CD2 PHE A
                                   11
                                                 0.178
                                                            63.597
                                                                                    1.00100.07
                                                                        56.674
                   CE1 PHE A
CE2 PHE A
CZ PHE A
             36
37
ATOM
                                   11
                                                 2.521
                                                            64.808
                                                                        57.545
                                                                                    1.00100.07
                                               1.297
2.470
-2.180
-2.207
ATOM
                                   11
                                                            63.635
                                                                        55.838
                                                                                    1.00100.07
MOTA
             38
                                                           64.244
66.268
65.819
                                   11
                                                                        56.277
                                                                                    1.00100.07
ATOM
             39
                   C
                         PHE A
                                   11
                                                                       58.168
57.012
                                                                                    1.00 35.63
                         PHE A
ATOM
                                   11
                                                                                    1.00 35,63
ATOM
                   N
                         THR A
                                                -2.821
                                                            67.371
                                                                        58.546
                                                                                    1.00 60.55
ATOM
             42
                   CA
                         THR A
                                   12
                                               -3.590
                                                            68.189
                                                                        57.615
                                                                                    1.00 60.55
ATOM
                   CB
                         THR A
                                               -3.781
                                                            69.612
                                                                        58.175
                                                                                    1.00100.07
ATOM
             44
                   OG1 THR A
                                   12
                                               -4.149
                                                                        59.557
                                                                                    1.00100.07
                                   12
MOTA
             45
                   CG2 THR A
                                               -4.858
                                                            70.350
                                                                        57.402
                                                                                    1.00100.07
ATOM
                         THR A
                                               -2.728
                                                            68.294
                                                                       56.363
                                                                                    1.00 60.55
```

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	47 O THR A 12 48 N ALA A 13 49 CA ALA A 13 50 CB ALA A 13 51 C ALA A 13 51 C ALA A 13 53 N THR A 14 54 CA THR A 14 55 CB THR A 14 56 OG1 THR A 14 57 CG2 THR A 14 58 C THR A 14 57 CG2 THR A 15 61 CA THR A 15 61 CA THR A 15 61 CA THR A 15 62 CB THR A 15 63 OG1 THR A 15 64 CG2 THR A 15 65 C THR A 15 66 O THR A 15 66 CG THR A 15 67 N GLN A 16 68 CA GLN A 16 69 CB GLN A 16 70 CG GLN A 16 71 CD GLN A 16 72 OE1 GLN A 16 72 OE1 GLN A 16 73 NE2 GLN A 16 74 C GLN A 16 75 O GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 78 C GLN A 16 76 N GLY A 17 79 O GLY A 17 78 C GLN A 16 76 N GLY A 17 79 O GLY A 17 78 C GLN A 16 76 N GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 75 O GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 75 O GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 75 O GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 75 O GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 75 O GLN A 16 76 N GLY A 17 77 CA GLY A 17 78 C GLN A 16 77 C GLN A 16 78 C GLN A 16 79 C GLN A 16 70 C GLN A 16 71 C GLN A 16 71 C C	-1.609 -3.227 -2.390 -2.941 -2.7530 -4.067 -4.181 -5.067 -4.181 -5.068 -3.168 -2.124 -3.580 -3.093 -2.809 -3.093 -2.81 -4.566 -2.928 -2.776 -3.187 -3.299 -2.026 -1.928 -2.750 -3.187 -3.620 -3.471 -4.194 -2.807 -2.882 -1.503 -1.5334 -0.506 0.888 1.1334 -0.506 0.8883 1.1537 -2.127 1.502 2.119 1.223 0.752 -0.494 -0.366 2.633 2.085 2.2578 1.149 0.943 0.938 1.366 1.366	7 67.855 67.810 67.910 68.6489 68.571 68.003 69.764 72.005 72.296 72.684 70.184 70.818 69.255 68.870 67.393 67.041 67.188 69.749 70.946 69.120 69.833 70.664 71.545 72.660 73.270 69.120 69.833 70.664 67.831	56.430 55.2163 55.21760 51.683 51.671 51.888 52.959 50.447 50.296 47.139 46.875 47.139 47.200 44.527 43.366 47.139 44.527 43.383 47.430 42.462 43.396 42.462 43.396 44.527 43.383 44.527 43.383 44.527 43.383 44.527 44.527 43.383 42.462 43.396 44.527 45.567 46.655 47.687 46.655 47.687 47.	1.00 60.55 1.00 47.73 1.00 47.73 1.00 47.73 1.00 47.73 1.00 47.73 1.00 59.31 1.00 61.51 1.00 61.51 1.00 61.51 1.00 63.08 1.00 99.60 1.00 99.60 1.00 99.60 1.00 99.60 1.00 99.43 1.00 86.73 1.00 74.89 1.00 68.86 1.00 74.00 1.00 74.00 1.00 74.92 1.00 74.92 1.00 74.92 1.00 74.92 1.00 74.92 1.00 74.92	A A A A A A A A A A A A A A A A A A A
ATOM	73 NE2 GLN A 16	-3.620	72.946			
	76 N GLY A 17	-2.807	69.100	42.462	1.00100.07	A
ATOM	78 C GLY A 17	-1.503	67.656	41.035		
		0.675	68.439	38.815	1.00100.07	A
MOTA	85 OD2 ASP A 18	1.532	68.945	38.054	1.00100.07	A
MOTA	87 O ASP A 18	2.127	69.939	40.507	1.00 44.89	
			72.365	42.553	1.00 74.00	A
	92 CD2 HIS A 19	-0.494	72.351	40.616	1.00 74.00	A
ATOM	94 CE1 HIS A 19	0.924	72.234	38.950	1.00 74.00	A
MOTA	96 C HIS A 19	2.316	71.310	44.460		
				46.387	1.00 99.95	A
ATOM	101 CG TYR A 20	1.149	75.062	46.652	1.00 74.92	A
ATOM	103 CE1 TYR A 20	0.938	76.932	45.100	1.00 74.92	
ATOM	105 CE2 TYR A 20	1.366	75.980			
MOTA MOTA	106 CZ TYR A 20 107 OH TYR A 20	1.147 1.103	77.826 79.180	46.148 45.901	1.00 74.92 1.00 74.92	- A А
ATOM ATOM	108 C TYR A 20 109 O TYR A 20	2.419 3.529	71.555 71.051	47.216 47.384	1.00 99.95 1.00 99.95	A A
ATOM ATOM	110 N GLY A 21 111 CA GLY A 21	1.315 1.427	71.037 69.850	47.726 48.542	1.00 45.46	A
ATOM	112 C GLY A 21	1.726	70.270	49.963	1.00 45.46 1.00 45.46	A A
ATOM ATOM	113 O GLY A 21 114 N GLU A 22	2.474 1.159	69.612 71.398	50.678 50.368	1.00 45.46 1.00 35.21	A A
ATOM ATOM	115 CA GLU A 22 116 CB GLU A 22	1.366 0.490	71.868 73.088	51.722 51.988	1.00 35.21 1.00 81.30	A A
ATOM ATOM	117 CG GLU A 22 118 CD GLU A 22	0.755 -0.177	74.249 75.412	51.052 51.313	1.00 81.30 1.00 81.30	A A
ATOM ATOM	119 OE1 GLU A 22	~0.505	75.638	52.497	1.00 81.30	A
ATOM	121 C GLU A 22	-0.572 0.996	76.106 70.726	50.348	1.00 81.30 1.00 35.21	A A
ATOM ATOM	122 O GLU A 22 123 N PHE A 23	-0.143 1.941	70.283 70.213	52.696 53.443	1.00 35.21 1.00 32.98	A A
ATOM ATOM	124 CA PHE A 23 125 CB PHE A 23	1.585 2.382	69.147 67.904	54.359 54.023	1.00 32.98 1.00 49.28	A A
ATOM ATOM	126 CG PHE A 23 127 CD1 PHE A 23	2.300	67.536	52.591	1.00 49.28	A
ATOM	128 CD2 PHE A 23	1.085	67.579 67.159	51.927 51.887	1.00 49.28 1.00 49.28	A A
ATOM ATOM	129 CE1 PHE A 23 130 CE2 PHE A 23	0.989 3.347	67.251 66.826	50.559 50.517	1.00 49.28 1.00 49.28	A A

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	131 132 133 1345 137 138 140 141 1443 1445 147 148 149 1551 1553 1556 1557 158	CZ C O N CA CB CG1 CG2 C O N CA CB CGC CD1 CD2 C O N CA CB CG CD1 OE2 C O N CA CB CG O N CA CB CD O N CA CB CG O N CB CG CB CG O N CB CG CB	VAL A VAL A LEU A GLU A GLU A GLU A GLU A GLU A GLU A	23 23 23 24 24 24 24 25 25 25 25 26 26 26 26 26 26 27	2.125 1.849 2.958 0.828 0.982 0.010 0.513 -0.153 1.835 1.835 1.836 3.193 3.742 5.146 2.845 0.932 -0.045 1.281 1.281 1.2963 -1.722 -1.411 -1.840 1.131 2.210 0.503	66.873 69.610 70.018 69.552 70.049 71.190 71.953 72.093 69.105 68.389 69.141 68.359 66.876 66.912 66.056 69.269 69.459 70.341 69.788 70.760 72.117 72.153 73.128 70.604 71.194 70.181	49.855 55.775 56.105 56.621 57.979 58.264 59.436 57.043 59.154 59.289 60.024 61.851 61.936 62.4920 62.076 61.566 63.343 64.188 64.324 63.848 64.324 63.848 64.324 65.653 63.701 65.551 66.666	1.00 49.28 1.00 32.98 1.00100.03 1.00100.03 1.00 18.08 1.00 18.08 1.00 18.08 1.00 100.03 1.00 70.43 1.00 75.51 1.00 75.51 1.00 75.51 1.00 75.51 1.00 75.51 1.00 75.51 1.00 70.43 1.00 70.43 1.00 70.43 1.00 70.43 1.00 70.43 1.00 70.43 1.00 70.43 1.00 70.43 1.00 70.07 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 33.20 1.00 100.07 1.00 100.07 1.00 100.07 1.00 100.07 1.00 100.07	A A A A A A A A A A A A A A A A A A A
ATOM ATOM ATOM	150 159 160	CD CA	PRO A PRO A	27 27 27	-0.442 1.258	69.092 70.517	66.971 67.871	1.00 46.06 1.00 30.49 1.00 46.06	A A A
ATOM ATOM	161 162	CB CG	PRO A	27 27	0.380	69.974 68.670	68.972 68.386	1.00 30.49 1.00 30.49	A A
ATOM ATOM	163 164	C	PRO A	27 27	2.581	69.773 68.650	67.809 67.307	1.00 46.06	A A
ATOM ATOM	165 166	N CA	LEU A	28 28	3.624 4.946	70.401 69.802	68.326 68.322	1.00100.07	A A
ATOM ATOM	167 168	CB CG	LEU A	28 28	5.558	69.950 69.040	66.921 65.843	1.00 56.66 1.00 56.66	A A
ATOM	169	CD1	LEU A	28	5.190	69.595	64,443	1.00 56.66	Α
ATOM ATOM	170 171	С	LEU A	28 28	5.575 5.761	67.660 70.556	66.011 69.364	1.00 56.66 1.00100.07	A A
ATOM ATOM	172 173	N	LEU A GLU A	28 29	6.266 5.866	71.650 69.966	69.100 70.552	1.00100.07 1.00 99.76	A A
ATOM ATOM	174 175	CA CB	GLU A GLU A	29 29	6.590 6.947	70.576 69.505	71.655 72.693	1.00 99.76 1.00100.07	A A
ATOM ATOM	176 177	CG CD	GLU A GLU A	29 29	5.680 5.952	68.888 67.897	73.315 74.434	1.00100.07	A A
ATOM ATOM	178 179	OE1 OE2	GLU A	29 29	6.663 5.441	66.897 68.118	74.190 75.556	1.00100.07	A A
ATOM	180	С	GLU A	29	7.805	71.360	71.175	1.00 99.76	Α
ATOM ATOM	181 182	N O	GLU A ARG A	29 30	8.707 7.768	70.830 72.653	70.528 71.470	1.00 99.76 1.00 78.24	A
ATOM ATOM	183 184	CA CB	ARG A ARG A	30 30	8.799 8.934	73.609 74.646	71.102 72.225	1.00 78.24 1.00100.07	A A
MOTA MOTA	185 186	CD	ARG A ARG A	30 30	9.973 9.413	75.730 77.113	71.982 72.296	1.00100.07 1.00100.07	A A
ATOM ATOM	187 188	NE CZ	ARG A	30 30	10.388 10.064	78.166 79.418	72.021 71.722	1.00100.07	A A
ATOM ATOM	189 190	NH1	ARG A	30 30	8.786 11.016	79.770 80.311	71.658 71.481	1.00100.07 1.00100.07	A
ATOM	191 192	C	ARG A	30 30	10.167 10.859	73.030 72.509	70.773	1.00 78.24 1.00 78.24	A
ATOM ATOM	193	и 0	ARG A GLY A	31	10.549	73.125	69.502	1.00 82.60	A A
ATOM ATOM	194 195	CA C	GLY A GLY A	31 31	11.854 11.892	72.646 71.458	69.095 68.174	1.00 82.60 1.00 82.60	A A
ATOM ATOM	196 197	O N	GLY A PHE A	31 32	12.842 10.870	70.682 71.301	68.217 67.346	1.00 82.60 1.00 70.02	A A
ATOM ATOM	198 199	CA CB	PHE A	32 32	10.843 9.910	70.184 69.080	66.413 66.905	1.00 70.02 1.00 38.84	A A
ATOM ATOM	200 201	CG	PHE A PHE A	32 32	10.558 10.952	68.106 68.494	67.843 69.116	1.00 38.84 1.00 38.84	A A
ATOM ATOM	202	CD2	PHE A	32 32	10.728 11.500	66.788	67.474 70.013	1.00 38.84 1.00 38.84	A
ATOM	204	CE2	PHE A	32	11.274	67.571 65.862	68.364	1.00 38.84	A A
ATOM ATOM	205 206	CZ C	PHE A	32 32	11.657 10.403	66.255 70.661	69.634 65.041	1.00 38.84 1.00 70.02	A A
ATOM ATOM	207 208	O N	PHE A GLY A	32 33	10.872 9.507	70.158 71.642	64.020 65.019	1.00 70.02 1.00 52.43	A A
ATOM ATOM	209 210	CA C	GLY A GLY A	33 33	9.022 10.150	72.160 72.311	63.754 62.758	1.00 52.43 1.00 52.43	A A
ATOM ATOM	211 212	o N	GLY A VAL A	33 34	9.926 11.371	72.368	61.550 63.279	1.00 52.43 1.00 71.93	A A
MOTA	213 214	CA CB	VAL A VAL A	34 34	12.560	72.495 73.635	62.451 62.897	1.00 71.93 1.00 71.93 1.00 70.76	A A
ATOM	~ 14	u	AUT W	J =	10.247		00.031	2.00 /0.70	A

ATOM 21: ATOM 21: ATOM 21: ATOM 21: ATOM 21: ATOM 22: ATOM 23:	5 CG2 VAL A 6 C VAL A 7 C VAL A 8 O VAL A 9 N THR A 9 CA THR A 1 CB THR A 8 CG2 THR A 6 C THR A 6 O THR A 6 C THR A 6 C LEU A 7 CA LEU A 8 CB LEU A 9 CD1 LEU A 1 CD2 LEU A 1 CD2 LEU A 2 CD4 LEU A 3 C LEU A 6 C LEU A 6 C LEU A 7 CA LEU A 8 CG LEU A 9 CD1 LEU A 9 CD2 LEU A 1 CD2 LEU A 1 CD2 LEU A 6 C GLY A 6 C GLY A 7 O GLY A	34 34 34 35 35 35 35 36 36 36 36 37 37 37	12.679 13.962 13.356 13.984 14.040 13.727 14.468 14.097 13.690 14.418 12.580 12.201 11.105 9.905 8.883 10.379 11.793 12.138 11.077 10.649 11.797 11.506	74.928 73.349 71.201 70.771 70.584 69.329 68.750 69.479 67.278 68.295 67.317 68.509 66.616 67.087 65.962 67.502 68.227 67.732 69.998 70.359 70.351	62.857 64.280 62.566 61.596 63.737 63.952 65.344 66.330 65.416 62.682 62.183 61.134 61.617 62.438 62.562 63.809 59.880 59.888 57.744 56.588	1.00 70.76 1.00 70.76 1.00 71.93 1.00 58.19 1.00 96.03 1.00 96.03 1.00 96.03 1.00 96.03 1.00 45.88 1.00 45.88 1.00 72.17 1.00 72.17 1.00 72.17 1.00 72.17 1.00 72.17 1.00 72.17 1.00 45.88 1.00 45.88 1.00 45.88	A A A A A A A A A A A A A A A A A A A
ATOM 238 ATOM 239 ATOM 240 ATOM 241 ATOM 242	CA ASN A CB ASN A CG ASN A	38 38 38 38 38	13.006 14.175 15.222 16.323 17.140	70.411 70.767 71.433 72.078 71.392	58.289 57.495 58.389 57.600 57.002	1.00 62.51 1.00 62.51 1.00 44.82 1.00 44.82 1.00 44.82	A A A A
ATOM 243 ATOM 244 ATOM 245 ATOM 246 ATOM 247	C ASN A O ASN A N PRO A	38 38 38 39 39	16.345 14.810 14.766 15.403 15.306	73.410 69.612 69.608 68.618 68.316	57.582 56.715 55.485 57.413 58.852	1.00 44.82 1.00 62.51 1.00 62.51 1.00 32.75 1.00 32.40	A A A A
ATOM 248 ATOM 249 ATOM 250 ATOM 251 ATOM 252	CB PRO A CB PRO A CG PRO A C PRO A	39 39 39 39 39	16.025 16.090 16.281 15.153 15.644	67.496 66.408 67.167 67.093 66.776	56.706 57.768 59.007 55.542 54.456	1.00 32.75 1.00 32.40 1.00 32.40 1.00 32.75 1.00 32.75	A A A A
ATOM 253 ATOM 254 ATOM 255 ATOM 256 ATOM 256	N LEU A CA LEU A CB LEU A CG LEU A	40 40 40 40 40	13.845 12.903 11.464 11.008 9.508	67.112 66.745 67.042 66.513 66.718	55.776 54.733 55.183 56.555 56.683	1.00 61.43 1.00 61.43 1.00 62.67 1.00 62.67 1.00 62.67	A A A A
ATOM 258 ATOM 259 ATOM 260 ATOM 261 ATOM 262	CD2 LEU A C LEU A C LEU A C LEU A C N ALA A	40 40 40 41 41	11.345 13.283 13.648 13.235 13.570	65.039 67.576 67.027 68.899 69.831	56.723 53.514 52.472 53.674 52.598	1.00 62.67 1.00 61.43 1.00 61.43 1.00 76.41 1.00 76.41	A A A A
ATOM 263 ATOM 264 ATOM 265 ATOM 266 ATOM 266	CB ALA A C ALA A O ALA A N ARG A	41 41 41 42 42	13.664 14.888 14.999 15.891 17.195	71.271 69.424 69.288 69.241 68.835	53.135 51.965 50.743 52.811 52.331	1.00 17.66 1.00 76.41 1.00 76.41 1.00 55.18 1.00 55.18	A A A A
ATOM 268 ATOM 269 ATOM 270 ATOM 271 ATOM 272	CB ARG A CG ARG A CD ARG A NE ARG A	42 42 42 42 42	18.081 18.327 19.592 20.706 21.938	68.423 69.551 70.268 69.661 69.590	53.505 54.476 54.136 54.843 54.361	1.00 50.68 1.00 50.68 1.00 50.68 1.00 50.68 1.00 50.68	A A A A
ATOM 273 ATOM 274 ATOM 275 ATOM 276 ATOM 277	NH1 ARG A NH2 ARG A C ARG A O ARG A	42 42 42 42 42 43	22.213 22.895 16.918 16.989 16.561	70.085 69.034 67.642 67.750 66.520	53.156 55.095 51.432 50.209 52.051	1.00 50.68 1.00 50.68 1.00 55.18 1.00 55.18 1.00 20.10	A A A A
ATOM 275 ATOM 275 ATOM 280 ATOM 281 ATOM 282	CA ILE A CB ILE A CG2 ILE A CG1 ILE A CD ILE A	43 43 43 43 43	16.269 15.440 15.404 16.062 17.339	65.302 64.319 62.952 64.166 63.403	51.317 52.162 51.482 53.541 53.534	1.00 20.10 1.00 22.38 1.00 22.38 1.00 22.38 1.00 22.38	A A A A
ATOM 283 ATOM 284 ATOM 285 ATOM 286 ATOM 287	O ILE A N LEU A CA LEU A CB LEU A	43 43 44 44	15.468 15.890 14.310 13.419 12.410	65.641 65.356 66.260 66.648 67.689	50.066 48.943 50.281 49.196 49.686	1.00 20.10 1.00 20.10 1.00 46.55 1.00 46.55 1.00 52.98	A A A A
ATOM 288 ATOM 289 ATOM 290 ATOM 291 ATOM 292	CD1 LEU A CD2 LEU A C LEU A C LEU A	44 44 44 44	11.436 10.608 10.550 14.189 14.084	67.147 68.269 66.110 67.204 66.692	50.731 51.320 50.077 48.002 46.881	1.00 52.98 1.00 52.98 1.00 52.98 1.00 46.55 1.00 46.55	A A A A
ATOM 293 ATOM 294 ATOM 295 ATOM 296 ATOM 297 ATOM 298	CA LEU A CB LEU A CG LEU A CD1 LEU A	45 45 45 45 45 45	14.970 15.757 16.322 15.338 16.096 14.609	68.250 68.877 70.203 71.271 72.346 71.867	48.247 47.192 47.690 48.150 48.868 46.976	1.00 40.73 1.00 40.73 1.00 25.17 1.00 25.17 1.00 25.17 1.00 25.17	A A A A A

MOTA MOTA	299 300	C O	LEU A LEU A	45 45	16.914 17.466	67.985 68.168	46.744 45.660	1.00 40.73 1.00 40.73	A A
ATOM	301	N	SER A	46	17.270	67.023	47.592	1.00 49.02	A
ATOM ATOM	302 303	CA CB	SER A SER A	46 46	18.375 19.145	66.112 65.831	47.326 48.619	1.00 49.02 1.00100.07	A
ATOM	304	OG	SER A	46	19.335	67.007	49.381	1.00100.07	A A
ATOM	305	C	SER A	46	17.915	64.782	46.753	1.00 49.02	A
ATOM ATOM	306 307	N O	SER A SER A	46 47	17.264 18.276	64.709 63.726	45.714 47.461	1.00 49.02 1.00 43.33	A A
ATOM	308	CA	SER A	47	17.935	62.367	47.083	1.00 43.33	A
ATOM ATOM	309 310	CB OG	SER A SER A	47 47	18.397 19.629	61.419 61.851	48.196 48.751	1.00 99.93 1.00 99.93	A A
ATOM	311	C	SER A	47	16.435	62.137	46.802	1.00 43.33	A
ATOM	312	0	SER A	47	15.624	62.121	47.733	1.00 43.33	A
MOTA MOTA	313 314	N CA	ILE A ILE A	48 48	16.073 14.684	61.959 61.695	45.531 45.128	1.00 85.43 1.00 85.43	A A
ATOM	315	CB	ILE A	48	13.746	62.916	45.278	1.00 25.46	A
MOTA MOTA	316 317	CG2 CG1		48 48	12.484 13.377	62.694 63.159	44.442 46.745	1.00 25.46 1.00 25.46	A A
ATOM	318	CD	ILE A	48	12.100	62.507	47.206	1.00 25.46	A
ATOM	319 320	C	ILE A	48	14.616 14.911	61.324	43.660 42.796	1.00 85.43	A
ATOM ATOM	321	O N	ILE A PRO A	48 49	14.191	62.151 60.089	43.354	1.00 85.43 1.00 54.50	A A
ATOM	322	CD	PRO A	49	13.855	59.002	44.287	1.00 98.88	A
ATOM ATOM	323 324	CA CB	PRO A	49 49	14.090 13.472	59.628 58.243	41.968 42.115	1.00 54.50 1.00 98.88	A A
ATOM	325	CG	PRO A	49	14.029	57.779	43.417	1.00 98.88	A
ATOM ATOM	326 327	0	PRO A PRO A	49 49	13.235 12.143	60.555 60.947	41.113 41.518	1.00 54.50 1.00 54.50	A A
ATOM	328	N	GLY A	50	13.749	60.903	39.937	1.00 44.57	A
MOTA	329	CA	GLY A	50	13.041	61.776	39.021	1.00 44.57	A
ATOM ATOM	330 331	C	GLY A	50 50	13.338 13.775	61.313 60.182	37.613 37.424	1.00 44.57 1.00 44.57	A A
MOTA	332	N	THR A	51	13.134	62.178	36.624	1.00 54.82	A
ATOM ATOM	333 334	CA CB	THR A	51 51	13.368 12.086	61.808 61.266	35.229 34.624	1.00 54.82 1.00 88.12	A A
ATOM	335	OG1		51	11.121	62.326	34.566	1.00 88.12	A
ATOM ATOM	336 337	CG2 C	THR A	51 51	11.528	60.129 63.019	35.480 34.397	1.00 88.12 1.00 54.82	A A
ATOM	338	ō	THR A	51	13.311	64.123	34.624	1.00 54.82	A
ATOM	339	N	ALA A	52	14.680	62.812	33.425	1.00 32.19	A
ATOM ATOM	340 341	CA CB	ALA A ALA A	52 52	15.134 16.008	63.907 64.856	32.571 33.371	1.00 32.19 1.00100.07	A A
ATOM	342	C	ALA A	52	15.876	63.456	31.313	1.00 32.19	A
MOTA MOTA	343 344	O N	ALA A VAL A	52 53	16.463 15.847	62.375 64.298	31.280 30.282	1.00 32.19 1.00 31.84	A A
ATOM	345	CA	VAL A	53	16.510	64.001	29.016	1.00 31.84	A
ATOM ATOM	346 347	CB CG1	VAL A	53 53	16.542 17.906	65.251 65.430	28.123 27.504	1.00 36.17 1.00 36.17	A A
MOTA	348	CG2		53	15.501	65.126	27.036	1.00 36.17	Ā
ATOM	349	C	VAL A	53	17.930	63.524	29.281	1.00 31.84	A
ATOM ATOM	350 351	O N	VAL A THR A	53 54	18.460 18.562	63.735 62.900	30.365 28.294	1.00 31.84 1.00 38.47	A A
ATOM	352	CA	THR A	54	19.915	62.400	28.495	1.00 38.47	A
ATOM ATOM	353 354	CB OG1	THR A	54 54	19.866 18.933	60.958 60.849	28.965 30.043	1.00 69.18 1.00 69.18	A A
ATOM	355	CG2	THR A	54	21.238	60.497	29.413	1.00 69.18	A
ATOM ATOM	356 357	C O	THR A	54 54	20.810 22.038	62.434 62.464	27.264 27.391	1.00 38.47 1.00 38.47	A A
ATOM	358	Ň	SER A	55	20.192	62.403	26.082	1.00 48.54	- A
ATOM ATOM	359 360	CA	SER A SER A	55 55	20.919 21.768	62.424 61.157	24.810 24.684	1.00 48.54 1.00 72.28	A A
ATOM	361	CB OG	SER A	55	22.265	61.011	23.369	1.00 72.28	A
MOTA	362	C	SER A	55	19.970	62.520	23.611	1.00 48.54	A
ATOM ATOM	363 364	N O	SER A VAL A	55 56	18.924 20.331	61.864 63.334	23.582 22.622	1.00 48.54 1.00 74.20	A A
ATOM	365	CA	VAL A	56	19.483	63.476	21.440	1.00 74.20	A
ATOM ATOM	366 367	CB CG1	VAL A VAL A	56 56	18.765 18.329	64.875 65.339	21.357 22.717	1.00 15.45 1.00 15.45	A A
ATOM	368	CG2	VAL A	56	19.664	65.896	20.712	1.00 15.45	A
ATOM ATOM	369 370	C O	VAL A	56 56	20.216 21.439	63.290 63.384	20.120 20.048	1.00 74.20 1.00 74.20	A A
ATOM	371	N	TYR A	57	19.439	63.014	19.079	1.00 62.63	A
ATOM	372	CA	TYR A	57 57	19.954	62.864	17.731 17.266	1.00 62.63 1.00 52.17	A A
MOTA MOTA	373 374	CB CG	TYR A	57 57	19.964 20.310	61.401 61.202	15.788	1.00 52.17 1.00 52.17	A
MOTA	375	CD1	TYR A	57	20.875	60.010	15.335	1.00 52.17	A
ATOM ATOM	376 377	CE1	TYR A TYR A	57 57	21.190 20.065	59.822 62.199	13.980 14.844	1.00 52.17 1.00 52.17	A A
MOTA	378	CE2	TYR A	57	20.371	62.022	13.492	1.00 52.17	A
MOTA MOTA	379 380	CZ OH	TYR A	57 57	20.935 21.253	60.837 60.688	13.066 11.732	1.00 52.17 1.00 52.17	A A
ATOM	381	C	TYR A	57	18.991	63.644	16.881	1.00 62.63	Α
ATOM	382	0	TYR A	57	17.850	63.227	16.690	1.00 62.63	A

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ATOM	383	N ILE A	58	19.444	64.793	16.399	1.00 40.99	A
ATOM	384	CA ILE A	58	18.623	65.611	15.519	1.00 40.99	A
ATOM	385	CB ILE A	58	18.849	67.138	15.730	1.00 48.67	A
ATOM	386	CG2 ILE A	58	17.754	67.919	15.058	1.00 48.67	A
ATOM	387	CG1 ILE A	58	18.808	67.490	17.209	1.00 48.67	A
ATOM	388	CD ILE A	58	20.002	66.996	17.960	1.00 48.67	A
ATOM ATOM	389 390	C ILE A	58 58	19.166 20.378	65.206 65.247	14.148 13.930	1.00 40.99	A
ATOM	391	N GLU A	59	18.286	64.789	13.241	1.00100.07	A A
ATOM	392	CA GLU A	59	18.698	64.361	11.903	1.00100.07	Ã
MOTA	393	CB GLU A	59	17.461	64.209	11.008	1.00100.07	A
ATOM	394	CG GLU A	59	17.757	63.710	9.605	1.00100.07	A
ATOM	395	CD GLU A	59	17.088	62.377	9.299	1.00100.07	Α
MOTA	396	OE1 GLU A	59	17.258	61.420	10.086	1.00100.07	Α
MOTA	397	OE2 GLU A	59	16.396	62.285	8.264	1.00100.07	A
ATOM	398	C GLU A	59	19.683	65.326	11.243	1.00100.07	A
ATOM	399 400	O GLUA	59 60	19.293 20.947	66.422	10.835	1.00100.07	A
ATOM ATOM	401	N ASPA CA ASPA	60	22.050	64.901 65.669	11.150 10.544	1.00100.07	A A
ATOM	402	CB ASP A	60	21.514	66.695	9.536	1.00 81.65	A
ATOM	403	CG ASP A	60	20.699	66.058	8.429	1.00 81.65	A
ATOM	404	OD1 ASP A	60	21.295	65.438	7.526	1.00 81.65	A
ATOM	405	OD2 ASP A	60	19.457	66.170	8.465	1.00 81.65	A
ATOM	406	C ASP A	60	22.969	66.394	11.539	1.00100.07	A
ATOM	407	O ASP A	60	22.543	66.839	12.606	1.00100.07	A
ATOM	408	N VAL A	61	24.239	66.507	11.157	1.00 87.49	A
ATOM	409 410	CA VAL A	61 61	25.279 25.121	67.175	11.944	1.00 87.49	A
ATOM ATOM	411	CG1 VAL A	61	26.437	68.709 69.359	11.901 12.288	1.00 76.95 1.00 76.95	A A
ATOM	412	CG2 VAL A	61	24.679	69.160	10.516	1.00 76.95	A
MOTA	413	C VAL A	61	25.392	66.763	13.401	1.00 87.49	A
ATOM	414	O VAL A	61	24.406	66.751	14.140	1.00 87.49	A
ATOM	415	N LEU A	62	26.611	66.427	13.808	1.00 69.94	A
MOTA	416	CA LEU A	62	26.859	66.051	15.191	1.00 69.94	A
ATOM	417	CB LEU A	62	27.936	64.971	15.280	1.00 99.97	A
ATOM	418	CG LEU A	62	29.229	65.175	14.498	1.00 99.97	A
ATOM	419	CD1 LEU A	62	30.181	64.026	14.818	1.00 99.97	A
ATOM ATOM	420 421	CD2 LEU A	62 62	28.936 27.275	65.237 67.293	13.002 15.966	1.00 99.97 1.00 69.94	A A
ATOM	422	O LEU A	62	26.962	68.411	15.553	1.00 69.94	A
ATOM	423	N HIS A	63	27.987	67.094	17.071	1.00 43.02	A
ATOM	424	CA HIS A	63	28.420	68.187	17.939	1.00 43.02	A
ATOM	425	CB HIS A	63	29.691	68.855	17,388	1.00100.07	A
ATOM	426	CG HIS A	63	29.495	69.617	16.115	1.00100.07	A
ATOM	427	CD2 HIS A	63	30.027	69.439	14.883	1.00100.07	A
ATOM	428	ND1 HIS A	63	28.726	70.757	16.039	1.00100.07	A
MOTA	429	CE1 HIS A	63	28.799	71.251	14.815	1.00100.07	A
ATOM ATOM	430 431	NE2 HIS A	63 63	29.582 27.319	70.471 69.220	14.094 18.223	1.00100.07	A A
ATOM	432	O HIS A	63	26.556	69.622	17.344	1.00 43.02	A
ATOM	433	N GLU A	64	27.235	69.621	19.484	1.00 83.05	A
MOTA	434	CA GLU A	64	26.243	70.580	19.932	1.00 83.05	A
MOTA	435	CB GLU A	64	26.253	70.639	21.463	1.00 95.17	A
MOTA	436	CG GLU A	64	25.040	71.323	22.070	1.00 95.17	A
MOTA	437	CD GLU A	64	25.059	71.329	23.587	1.00 95.17	A
ATOM ATOM	438 439	OE1 GLU A OE2 GLU A	64 64	25.330 24.788	70.265 72.397	24.189 24.176	1.00 95.17 1.00 95.17	A A
ATOM	440	C GLU A	64	26.506	71.969	19.364	1.00 83.05	Ā
ATOM	441	O GLU A	64	25.830	72.919	19.734	1.00 83.05	A
ATOM	442	N PHE A	65	27.477	72.097	18.465	1.00 17.45	- A
ATOM	443	CA PHE A	65	27.794	73.409	17.884	1.00 17.45	A
ATOM	444	CB PHE A	65	29.272	73.719	18.095	1.00 18.31	A
ATOM	445	CG PHE A	65	29.709	73.551	19.508	1.00 18.31	A
ATOM ATOM	446 447	CD1 PHE A CD2 PHE A	65 65	29.899 29.873	72.295 74.648	20.040 20.331	1.00 18.31 1.00 18.31	A A
ATOM	448	CE1 PHE A	65	30.243	72.135	21.367	1.00 18.31	A
ATOM	449	CE2 PHE A	65	30.215	74.487	21.657	1.00 18.31	A
ATOM	450	CZ PHE A	65	30.399	73.227	22.170	1.00 18.31	A
ATOM	451	C PHE A	65	27.463	73.526	16.402	1.00 17.45	A
MOTA	452	O PHE A	65	28.275	74.024	15.619	1.00 17.45	A
ATOM	453	N SER A	66	26.268	73.079	16.023	1.00 52.72	A
MOTA	454	CA SER A	66	25.846	73.092	14.624	1.00 52.72	A
MOTA	455	CB SER A	66 66	25.300	71.711 70.662	14.251	1.00 48.15 1.00 48.15	A A
ATOM ATOM	456 457	OG SER A C SER A	66 66	26.072 24.768	70.662	14.825 14.351	1.00 48.15	A A
ATOM	457	O SER A	66	24.700	75.117	15.084	1.00 52.72	A
ATOM	459	N THR A	67	23.996	73.927	13.288	1.00 44.34	A
ATOM	460	CA THR A	67	22.920	74.843	12.922	1.00 44.34	A
ATOM	461	CB THR A	67	23.470	76.169	12.362	1.00 40.81	А
MOTA	462	OG1 THR A	67	22.381	76.976	11.891	1.00 40.81	A
ATOM	463	CG2 THR A	67	24.449	75.907	11.221	1.00 40.81	A
ATOM	464	C THR A	67 67	21.976 22.298	74.228 74.178	11.887	1.00 44.34	A A
ATOM ATOM	465 466	O THR A N ILE A	68	20.808	73.766	10.701 12.336	1.00 44.34	A A
				20.000	, , , , , , ,			

ATOM	467	CA	ILE A	68	19.825	73.136	11.444	1.00 68.89	A
ATOM	468	CB	ILE A	68	18.866	72.182	12.216	1.00 47.46	A
ATOM ATOM	469 470		ILE A ILE A	68 68	18.420 19.574	71.048 71.570	11.306 13.424	1.00 47.46 1.00 47.46	A A
ATOM	471	CD	ILE A	68	18.671	70.752	14.283	1.00 47.46	A
ATOM	472	C	ILE A	68	18.962	74.172	10.719	1.00 68.89	A
ATOM	473 474	O	ILE A	68 69	18.215 19.035	74.927 74.189	11.348 9.375	1.00 68.89 1.00 69.72	A A
ATOM ATOM	475	N CD	PRO A	69	19.754	73.147	8.619	1.00 34.85	A
ATOM	476		PRO A	69	18.316	75.088	8.454	1.00 69.72	A
ATOM	477		PRO A	69	18.767	74.604	7.077	1.00 34.85	A
ATOM	478	CG	PRO A	69	18.999	73.140	7.306	1.00 34.85	A
ATOM ATOM	479 480		PRO A	69 69	16.800 16.187	75.116 74.160	8.569 9.033	1.00 69.72 1.00 69.72	A A
ATOM	481		GLY A	70	16.212	76.222	8.116	1.00 92.95	A
ATOM	482		GLY A	70	14.772	76.388	8.174	1.00 92.95	A
ATOM	483		GLY A	70 70	14.338 13.167	76.526 76.771	9.618	1.00 92.95 1.00 92.95	A A
ATOM ATOM	484 485		GLY A VAL A	71	15.296	76.377	9,905 10.528	1.00 56.58	A
ATOM	486		VAL A	71	15.033	76.454	11.955	1.00 56.58	A
ATOM	487		VAL A	71	15.624	75.233	12.690	1.00 36.59	A
ATOM ATOM	488 489		VAL A VAL A	71 71	15.017 15.422	75.097 73.988	14.074 11.876	1.00 36.59 1.00 36.59	A A
ATOM	490		VAL A	71	15.712	77.683	12.536	1.00 56.58	A
ATOM	491		VAL A	71	16.927	77.701	12.689	1.00 56.58	A
ATOM	492		LYS A	72	14.928	78.700	12.869	1.00 65.96	A
MOTA	493		LYS A	72 72	15.459 14.290	79.925 80.823	13.473 13.902	1.00 65.96 1.00 99.92	A A
ATOM ATOM	494 495		LYS A LYS A	72	14.290	81.927	14.895	1.00 99.92	A
ATOM	496		LYS A	72	13.387	82.534	15.506	1.00 99.92	A
ATOM	497		LYS A	72	13.686	83.308	16.781	1.00 99.92	A
ATOM	498		LYS A	72	12.437	83.682	17.502	1.00 99.92	A
ATOM ATOM	499 500		LYS A	72 72	16.346 17.428	79.620 80.197	14.688 14.840	1.00 65.96 1.00 65.96	A A
ATOM	501		GLU A	73	15.868	78.730	15.555	1.00 56.97	A
ATOM	502		GLU A	73	16.607	78.315	16.744	1.00 56.97	Α
ATOM	503		GLU A	73	15.973	77.066	17.361	1.00 64.77	A
ATOM ATOM	504 505		GLU A GLU A	73 73	15.259 14.292	77.297 78.429	18.646 18.525	1.00 64.77 1.00 64.77	A A
ATOM	506		GLU A	73	13.611	78.489	17.484	1.00 64.77	A
ATOM	507	OE2	GLU A	73	14.205	79.254	19.460	1.00 64.77	A
MOTA	508		GLU A	73	18.028	77.951	16.344	1.00 56.97	A
ATOM ATOM	509 510		GLU A ASP A	73 74	18.369 18.840	77.943 77.627	15.163 17.344	1.00 56.97 1.00 56.37	A A
MOTA	511		ASP A	74	20.227	77.213	17.143	1.00 56.37	A
MOTA	512		ASP A	74	21.111	77.836	18.232	1.00 68.46	A
ATOM	513		ASP A	74	22.589	77.652	17.969	1.00 68.46	A
ATOM ATOM	514 515		ASP A ASP A	74 74	23.082 23.260	76.509 78.663	18.057 17.675	1.00 68.46 1.00 68.46	A A
MOTA	516		ASP A	74	20.176	75.695	17.301	1.00 56.37	A
MOTA	517		ASP A	74	19.332	75.039	16.700	1.00 56.37	A
MOTA	518		VAL A	75 75	21.064 21.052	75.132 73.694	18.107 18.331	1.00 47.58 1.00 47.58	A A
MOTA MOTA	519 520		VAL A VAL A	75 75	22.004	72.915	17.374	1.00 47.38	Ā
MOTA	521		VAL A	75	21.598	73.139	15.923	1.00 71.89	A
ATOM	522		VAL A	75	23.438	73.342	17.593	1.00 71.89	A
MOTA MOTA	523 524		VAL A VAL A	75 75	21.480 21.212	73.467 72.415	19.761 20.341	1.00 47.58 1.00 47.58	A A
MOTA	525		VAL A	76	22.150	74.470	20.325	1.00 47.65	A
MOTA	526		VAL A	76	22.606	74.387	21.705	1.00 47.65	* A
ATOM	527		VAL A	76	23.711	75.429	22.029	1.00 53.08	A
ATOM ATOM	528 529		VAL A VAL A	76 76	24.565 24.561	74.932 75.700	23.186 20.806	1.00 53.08 1.00 53.08	A A
MOTA	530		VAL A	76	21.361	74.716	22.502	1.00 47.65	A
MOTA	531	0	VAL A	76	20.969	73.976	23.415	1.00 47.65	A
MOTA	532 533		GLU A	77	20.738	75.833 76.305	22.118	1.00 51.13	A
ATOM ATOM	534		GLU A GLU A	77 77	19.512 18.912	77.446	22.750 21.935	1.00 51.13 1.00 99.63	A A
MOTA	535		GLU A	<b>77</b>	18.429	78.606	22.766	1.00 99.63	A
ATOM	536		GLU A	77	17.254	79.306	22.125	1.00 99.63	A
ATOM	537		GLU A	77 77	16.118 17.469	78.791 80.362	22.241 21.493	1.00 99.63 1.00 99.63	A
ATOM ATOM	538 539		GLU A GLU A	77 77	18.566	75.106	21.493	1.00 59.63	A A
ATOM	540		GLU A	לל	18.148	74.627	23.805	1.00 51.13	A
ATOM	541	N	ILE A	78	18.239	74.623	21.557	1.00 41.27	A
MOTA	542		ILE A	78 78	17.374 17.596	73.468 72.782	21,425 20,080	1.00 41.27 1.00 44.04	A A
ATOM ATOM	543 544		ILE A	78 78	16.831	71.480	20.080	1.00 44.04	A
ATOM	545		ILE A	78	17.197	73.735	18.951	1.00 44.04	A
ATOM	546	CD	ILE A	78	17.541	73.234	17.560	1.00 44.04	A
ATOM	547		ILE A	78 79	17.786	72.519 72.174	22.530 23.385	1.00 41.27 1.00 41.27	A A
ATOM ATOM	548 549	N O	ILE A ILE A	78 79	16.984 19.049	72.174	22.538	1.00 41.27	A
ATOM	550		ILE A	79	19.491	71.211	23.576	1.00 42.42	A

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ATOM	551	СВ	ILE A	79		1.013	71.013	23.586	1.00 35.69	A
ATOM ATOM	552 553	CG2 CG1	ILE A	79 79		1.426 1.450	70.226 70.237	24.837 22.349	1.00 35.69 1.00 35.69	A A
ATOM	554	CD	ILE A	79	2	1.040	68.792	22.370	1.00 35.69	A
ATOM ATOM	555 556	C	ILE A	79 79		9.089 8.740	71.752 70.980	24.927 25.811	1.00 42.42 1.00 42.42	A A
ATOM	557	N	LEU A	80	1	9.136	73.074	25.084	1.00 70.11	A
ATOM ATOM	558 559	CA CB	LEU A	80 80		8.779 9.257	73.710 75.173	26.354 26.380	1.00 70.11	A A
ATOM	560	CG	LEU A	80	2	0.732	75.506	26.083	1.00 34.05	A
ATOM ATOM	561 562		LEU A	80 80		0.959	76.988 74.686	26.339 26.952	1.00 34.05	A A
ATOM	563	C	LEU A	80		7.276	73.644	26.654	1.00 70.11	Ā
ATOM ATOM	564 565	O N	LEU A ASN A	80 81		6.892	73.356 73.924	27.789 25.665	1.00 70.11 1.00 34.19	A A
ATOM	566	CA	ASN A	81		4.981	73.826	25.903	1.00 34.19	A
ATOM ATOM	567 568	CB CG	ASN A	81 81		4.178	74.115 75.611	24.622 24.326	1.00 38.34 1.00 38.34	A A
ATOM	569		ASN A	81	1	4.858	76.211	23.631	1.00 38.34	A
ATOM	570 571	ND2	ASN A	81		2.984 4.754	76.215 72.381	24.859	1.00 38.34	A A
ATOM ATOM	572	С О	ASN A	81 81		4.429	72.100	26.350 27.508	1.00 34.19 1.00 34.19	A
ATOM	573 574	N	LEU A	82 82		4.976	71.473	25.407	1.00 59.07	A
ATOM ATOM	575	CA CB	LEU A	82		5.567	70.030 69.353	25.594 24.409	1.00 59.07 1.00 58.84	A A
ATOM	576	CG CD1	LEU A	82		5.719	67.852	24.181	1.00 58.84	A
ATOM ATOM	577 578		LEU A LEU A	82 82		5.984 6.848	67.607 67.312	22.702 25.036	1.00 58.84 1.00 58.84	A A
ATOM ATOM	579 580	C 0	LEU A	82 82		5.404 5.077	69.563 68.478	26.944 27.415	1.00 59.07 1.00 59.07	A
ATOM	581	N	LYS A	83		6.238	70.389	27.565	1.00 40.47	A A
ATOM ATOM	582 583	CA CB	LYS A	83 83		6.819 7.902	70.056 71.066	28.860 29.260	1.00 40.47 1.00 71.50	A A
ATOM	584	CG	LYS A	83		9.280	70.837	28.666	1.00 71.50	A
ATOM ATOM	585 586	CE	LYS A	83 83		0.261	71.900 71.818	29.148 30.645	1.00 71.50 1.00 71.50	A A
ATOM	587	NZ	LYS A	83	2	1.299	72.948	31.147	1.00 71.50	A
ATOM ATOM	588 589	C	LYS A LYS A	83 83		5.739 5.774	70.082 69.300	29.928 30.885	1.00 40.47 1.00 40.47	A A
MOTA	590	N	GLU A	84	1	4.791	71.002	29.767	1.00100.07	A
ATOM ATOM	591 592	CA CB	GLU A GLU A	84 84		3.698 3.113	71.163 72.561	30.719 30.617	1.00100.07 1.00 99.88	A A
MOTA	593	CG	GLU A	84	1:	3.981	73.587	31.279	1.00 99.88	Α
ATOM ATOM	594 595	CD OE1	GLU A GLU A	84 84		3.730 2.552	74.954 75.369	30.735 30.714	1.00 99.88 1.00 99.88	A A
MOTA	596	OE2	GLU A	84	1	4.710	75.609	30.326	1.00 99.88	A
ATOM ATOM	597 598	С 0	GLU A	84 84		2.599	70.134 69.613	30.557 31.550	1.00100.07	A A
ATOM	599	N	LEU A	85		2.229	69.856	29.311	1.00 31.70	A
ATOM ATOM	600 601	CA CB	LEU A	85 85		1.204	68.863 68.157	29.023 27.705	1.00 31.70 1.00 36.11	A A
ATOM	602 603	CG CD1	LEU A	85		0.661	66.947	27.364	1.00 36.11 1.00 36.11	A
ATOM ATOM	604		LEU A	85 85		9.209 0.950	67.333 66.480	27.506 25.947	1.00 36.11	A A
ATOM	605	C	LEU A	85 85		L.097 2.002	67.819	30.138	1.00 31.70 1.00 31.70	A
ATOM ATOM	606 607	N	LEU A VAL A	85 86		9.988	67.003 67.867	30.332 30.872	1.00 31.70 1.00 64.02	A A
ATOM ATOM	608 609	CA CB	VAL A VAL A	86 86		9.746	66.938 67.640	31.967 33.155	1.00 64.02 1.00 43.35	A A
ATOM	610	CG1	VAL A	86	•	7.761	68.241	32.738	1.00 43.35	- A
MOTA MOTA	611 612		VAL A VAL A	86 86		3.865 3.889	66.662 65.760	34.267 31.528	1.00 43.35	A A
ATOM	613	О	VAL A	86	•	7.912	65.945	30.798	1.00 64.02	A
MOTA MOTA	614 615	N CA	VAL A	87 87		9.247 3.491	64.551 63.355	31.969 31.584	1.00 31.91 1.00 31.91	A A
MOTA	616	CB	VAL A	87	9	9.341	62.361	30.760	1.00 48.32	A
MOTA MOTA	617 618		VAL A VAL A	87 87		9.363 0.751	62.762 62.321	29.307 31.304	1.00 48.32 1.00 48.32	A A
ATOM	619	С	VAL A	87	-	7.925	62.575	32.752	1.00 31.91	Α
ATOM ATOM	620 621	O N	VAL A ARG A	87 88		3.558 5.707	62.430 62.091	33.784 32.569	1.00 31.91 1.00 62.79	A A
MOTA	622	CA	ARG A	88	6	5.028	61.273	33.557	1.00 62.79	A
ATOM ATOM	623 624		ARG A ARG A	88 88	3	1.565 3.661	61.715 60.775	33.684 34.489	1.00 68.82 1.00 68.82	A A
MOTA	625	CD	ARG A	88	2	2.337	61.461	34.886	1.00 68.82	A
MOTA MOTA	626 627	CZ	ARG A ARG A	88 88	1	L.402 L.705	60.584 59.860	35.594 36.671	1.00 68.82 1.00 68.82	A A
MOTA ATOM	628 629		ARG A	88 88		0.785 2.928	59.099 59.880	37.239 37.184	1.00 68.82 1.00 68.82	A A
MOTA	630	С	ARG A	88	$\epsilon$	5.131	59.906	32.892	1.00 62.79	Ā
MOTA MOTA	631 632		ARG A PHE A	88 89		5.583	59.699 58.980	31.811 33.524	1.00 62.79 1.00 88.02	A A
MOTA	633	CA	PHE A	89	7	7.055	57.662	32.938	1.00 88.02	Α
MOTA	634	CB	PHE A	89	8	3.420	57.135	33.409	1.00 36.30	A

ATOM	635	CG	PHE	A 8	9	9.547	57.385	32.429	1.00 36.30	A
ATOM	636		PHE			9.441	58.369	31.444	1.00 36.30	A
ATOM ATOM	637 638	CD2 CE1		A 8 A 8		10.717 10.493	56.620 58.578	32.483 30.514	1.00 36.30	A A
ATOM	639	CE2		A 8		11.769	56.822	31.562	1.00 36.30	A
ATOM	640	CZ		A 8		11.655	57.800	30.582	1.00 36.30	A
ATOM	641	C		8 A		5.986	56.568	33.069	1.00 88.02	A
ATOM ATOM	642 643	O N	PHE			5.719 5.375	55.858 56.428	32.099 34.240	1.00 88.02	A
MOTA	644	CA	LEU			4.355	55.398	34.452	1.00100.03	A A
ATOM	645	CB	LEU			3.385	55.335	33.268	1.00 43.38	A
ATOM	646	CG	LEU			2.587	56.623	33.037	1.00 43.38	A
ATOM	647	CD1				1.514	56.436	31.972	1.00 43.38	A
ATOM ATOM	648 649	CD2 C	LEU LEU			1.932 4.990	57.016 54.028	34.341 34.683	1.00 43.38	A A
ATOM	650	ō	LEU			5.794	53.853	35.600	1.00100.03	A
ATOM	651	N	ASP		1	4.627	53.064	33.845	1.00 82.00	A
ATOM	652	CA		A 9		5.131	51.692	33.935	1.00 82.00	A
ATOM ATOM	653 654	CB CG	ASP ASP			5.334 6.270	51.115 51.954	32.531 31.685	1.00100.07	A A
ATOM	655		ASP			7.485	51.991	31.985	1.00100.07	A
ATOM	656	OD2		A 9		5.783	52.582	30.717	1.00100.07	A
ATOM	657	C	ASP			6.391	51.442	34.752	1.00 82.00	A
ATOM	658 659	0	ASP			7.498	51.752	34.318	1.00 82.00	A
ATOM ATOM	660	N CD	PRO .			6.230 4.953	50.878 50.554	35.958 36.616	1.00 75.04	A A
ATOM	661	CA	PRO			7.356	50.571	36.837	1.00 75.04	A
MOTA	662	CB	PRO .	A 9	2	6.721	49.688	37.893	1.00100.07	A
ATOM	663	CG	PRO			5.374	50.328	38.051	1.00100.07	A
ATOM	664	C	PRO .			8.396	49.840	36.007	1.00 75.04	A
ATOM ATOM	665 666	O N	PRO .			8.216 9.457	48.664 50.578	35.655 35.680	1.00 75.04	A A
ATOM	667	CA	ARG .			10.584	50.115	34.869	1.00100.07	A
MOTA	668	CB	ARG .	A 9:		10.444	48.626	34.537	1.00100.07	A
ATOM	669	CG	ARG .			11.763	47.913	34.422	1.00100.07	A
ATOM ATOM	670 671	CD NE	ARG .			12.626 13.974	48.210 47.675	35.641 35.493	1.00100.07	A A
ATOM	672	CZ	ARG .			15.043	48.171	36.105	1.00100.07	A
MOTA	673	NH1				14.919	49.220	36.909	1.00100.07	A
ATOM	674		ARG .			16.235	47.624	35.903	1.00100.07	A
ATOM ATOM	675 676	С 0	ARG A			10.591 9.553	50.940 51.079	33.581 32.934	1.00100.07	A A
ATOM	677	N	TRP .			11.740	51.503	33.210	1.00100.07	A
MOTA	678	CA	TRP			11.794	52.301	31.987	1.00 75.71	A
MOTA	679	CB	TRP			10.774	53.442	32.089	1.00 99.15	A
ATOM	680 681	CG CD2	TRP I	A 94 A 94		9.927 9.912	53.683 52.919	30.853	1.00 99.15	A
ATOM ATOM	682	CE2	TRP			8.990	53.540	29.642 28.769	1.00 99.15	A A
ATOM	683	CE3	TRP .			10.585	51.772	29.207	1.00 99.15	A
MOTA	684	CD1	TRP .			9.035	54.699	30.666	1.00 99.15	A
ATOM ATOM	685 686	NE1 CZ2	TRP I	A 94 A 94		8.472 8.726	54.624 53.055	29.421 27.485	1.00 99.15 1.00 99.15	A A
ATOM	687	CZ3	TRP			10.323	51.289	27.926	1.00 99.15	A
ATOM	688	CH2	TRP .			9.399	51.932	27.081	1.00 99.15	A
MOTA	689	C	TRP A			13.181	52.860	31.622	1.00 75.71	A
ATOM ATOM	690 691	O N	TRP ARG			14.204 13.168	52.300 53.951	32.021	1.00 75.71 1.00 54.02	A
ATOM	692	CA	ARG			14.330	54.700	30.846 30.336	1.00 54.02	A A
ATOM	693	CB	ARG A			15.670	54.103	30.811	1.00100.06	A
ATOM	694	CG	ARG A		_	15.943	54.246	32.325	1.00100.06	- A
ATOM ATOM	695 696	NE CD	ARG A			17.394 17.546	53.909 53.545	32.698 34.111	1.00100.06	A
ATOM	697	CZ	ARG A			18.714	53.439	34.748	1.00100.06	A A
ATOM	698	NH1	ARG A			19.855	53.674	34.114	1.00100.06	A
ATOM	699	NH2				18.745	53.077	36.025	1.00100.06	A
MOTA MOTA	700 701	С 0	ARG A			14.278 15.299	54.722 54.555	28.811	1.00 54.02	A
ATOM	702	N	THR A			13.080	54.976	28.157 28.270	1.00 54.02 1.00 42.25	A A
ATOM	703	CA	THR A			12.785	54.978	26.817	1.00 42.25	A
ATOM	704	CB	THR A			11.251	54.979	26.574	1.00 64.26	A
ATOM ATOM	705 706		THR A			10.987 10.659	54.595 56.357	25.221 26.820	1.00 64.26 1.00 64.26	A A
ATOM	707	C	THR A			13.397	56.022	25.870	1.00 42.25	A
ATOM	708	0	THR A	A 96	5	14.484	56.530	26.109	1.00 42.25	A
ATOM	709	N	THR A			12.691	56.311	24.780	1.00 37.72	A
ATOM ATOM	710 711	CA CB	THR A			13.146 13.999	57.277 56.625	23.781 22.731	1.00 37.72 1.00 16.48	A A
ATOM	712		THR A			15.101	55.984	23.369	1.00 16.48	A
ATOM	713	CG2	THR A	A 97	•	14.492	57.667	21.735	1.00 16.48	A
ATOM	714	C	THR A			12.004	57.939	23.029	1.00 37.72	A
ATOM	715 716	O N	THR A			10.949 12.218	57.347 59.158	22.842 22.562	1.00 37.72 1.00 50.75	A A
MOTA MOTA	717	CA	LEU A			11.151	59.825	21.859	1.00 50.75	A
MOTA	718	CB	LEU A			10.672	61.041	22.648	1.00 14.35	A

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	719 720 721 722 723 724 725 726	CG LEU A 98 CD1 LEU A 98 CD2 LEU A 98 C LEU A 98 O LEU A 98 N ILE A 99 CA ILE A 99 CB ILE A 99	10.225 9.781 9.095 11.518 12.700 10.475 10.587 9.811	60.667 61.881 59.657 60.220 60.311 60.437 60.809 59.852	24.070 24.863 23.960 20.451 20.095 19.654 18.262 17.384	1.00 14.35 1.00 14.35 1.00 14.35 1.00 50.75 1.00 50.75 1.00 47.11 1.00 47.11	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	727 728 729 730 731 732 733	CG2 ILE A 99 CG1 ILE A 99 CD ILE A 99 C ILE A 99 O ILE A 99 N LEU A 100 CA LEU A 100	9.582 10.541 11.838 9.962 9.129 10.362 9.826	60.479 58.514 58.567 62.158 62.560 62.855 64.172	16.034 17.290 16.494 18.094 18.888 17.047 16.751	1.00 41.20 1.00 41.20 1.00 41.21 1.00 47.11 1.00 47.11 1.00 24.91	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM	734 735 736 737 738 739	CB LEU A 100 CG LEU A 100 CD1 LEU A 100 CD2 LEU A 100 C LEU A 100 O LEU A 100	10.314 10.260 8.948 10.458 10.312 11.282	65.222 66.662 66.937 67.625 64.540 65.277	17.746 17.209 16.494 18.347 15.389 15.254	1.00 89.32 1.00 89.32 1.00 89.32 1.00 89.32 1.00 24.91 1.00 24.91	A A A A A
MOTA ATOM ATOM ATOM ATOM ATOM MOTA MOTA	740 741 742 743 744 745 746	N ARG A 101 CA ARG A 101 CB ARG A 101 CG ARG A 101 CD ARG A 101 NE ARG A 101 CZ ARG A 101	9.637 10.007 9.584 10.640 10.512 11.748 11.980	64.010 64.266 63.072 62.603 61.104 60.552 59.255	14.380 13.002 12.126 11.118 10.804 10.237 10.026	1.00 83.85 1.00 83.85 1.00100.07 1.00100.07 1.00100.07 1.00100.07	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	747 748 749 750 751 752 753	NH1 ARG A 101 NH2 ARG A 101 C ARG A 101 O ARG A 101 N ALA A 102 CA ALA A 102 CB ALA A 102	11.055 13.143 9.348 9.977 8.088 7.281 6.218	58.354 58.854 65.555 66.373 65.733 66.885 67.171	10.334 9.515 12.520 11.845 12.908 12.516 13.578	1.00100.07 1.00100.07 1.00 83.85 1.00 83.85 1.00 35.68 1.00 35.68 1.00 52.49	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM	754 755 756 757 758 759	C ALA A 102 O ALA A 102 N ALA A 103 CA ALA A 103 CB ALA A 103 C ALA A 103	8.099 8.750 8.047 8.787 9.994 7.947	68.130 68.679 68.566 69.731 69.286 70.713	12.234 13.124 10.980 10.539 9.739 9.735	1.00 35.68 1.00 35.68 1.00 42.28 1.00 42.28 1.00100.07 1.00 42.28	A A A A A
MOTA ATOM ATOM MOTA MOTA MOTA MOTA MOTA	760 761 762 763 764 765 766	O ALA A 103 N GLY A 104 CA GLY A 104 C GLY A 104 O GLY A 104 N PRO A 105 CD PRO A 105	8.442 6.662 5.816 6.221 6.073 6.764 7.061	71.411 70.769 71.702 73.106 73.475 73.904 73.545	8.847 10.046 9.338 9.744 10.913 8.811 7.412	1.00 42.28 1.00100.07 1.00100.07 1.00100.07 1.00100.07 1.00 83.24 1.00 87.70	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	767 768 769 770 771 772 773	CA PRO A 105 CB PRO A 105 CG PRO A 105 C PRO A 105 O PRO A 105 N LYS A 106 CA LYS A 106	7.183 7.210 7.817 6.241 5.326 6.479 5.689	75.276 75.887 74.760 76.006 76.710 75.815 76.430	9.088 7.701 6.914 10.048 9.617 11.346 12.411	1.00 83.24 1.00 87.70 1.00 87.70 1.00 83.24 1.00 72.93 1.00 72.93	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	774 775 776 777 778 779 780	CB LYS A 106 CG LYS A 106 CD LYS A 106 CE LYS A 106 NZ LYS A 106 C LYS A 106 O LYS A 106	4.307 4.326 2.920 2.936 1.564 6.410 7.586	75.787 74.377 73.858 72.521 72.035 76.237 75.869	12.495 13.040 13.249 13.974 14.306 13.746 13.776	1.00 99.49 1.00 99.49 1.00 99.49 1.00 99.49 1.00 72.93 1.00 72.93	A A A A A A
ATOM ATOM ATOM ATOM AOTA ATOM	781 782 783 784 785 786	N GLU A 107 CA GLU A 107 CB GLU A 107 CG GLU A 107 CD GLU A 107 OE1 GLU A 107	5.700 6.272 5.506 5.735 5.712 4.768	76.477 76.332 77.187 78.668 79.314 79.039	14.845 16.185 17.190 17.095 18.467 19.242	1.00 85.68 1.00 85.68 1.00 99.92 1.00 99.92 1.00 99.92 1.00 99.92	A A A A A
MOTA ATOM ATOM ATOM ATOM ATOM ATOM ATOM	787 788 789 790 791 792 793	OE2 GLU A 107 C GLU A 107 O GLU A 107 N VAL A 108 CA VAL A 108 CB VAL A 108 CG1 VAL A 108	6.640 6.265 5.197 7.443 7.505 8.715 8.635	80.092 74.896 74.339 74.300 72.942 72.136 70.668	18.772 16.710 16.978 16.875 17.405 16.849 17.318	1.00 85.68 1.00 85.68 1.00 77.04 1.00 77.04 1.00 16.82 1.00 16.82	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	794 795 796 797 798 799 800	CG2 VAL A 108 C VAL A 108 O VAL A 108 N ARG A 109 CA ARG A 109 CB ARG A 109 CG ARG A 109	8.742 7.624 8.637 6.567 6.496 5.194 4.015	72.207 73.011 73.456 72.584 72.558 73.211 72.742	15.321 18.926 19.464 19.606 21.066 21.505 20.673	1.00 16.82 1.00 77.04 1.00 77.04 1.00 23.54 1.00 23.54 1.00100.07	A A A A A
ATOM ATOM	801 802	CD ARG A 109 NE ARG A 109	2.715 1.634	73.404	21.074 20.178	1.00100.07 1.00100.07	A A

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	803 804 805 806 807 808 810 811 812 813 814 815 816 817 818 819	CZ ARG A 109 NH1 ARG A 109 NH2 ARG A 109 C ARG A 109 O ARG A 109 O ARG A 100 CA ALA A 110 CB ALA A 110 C ALA A 110 O ALA A 110 O ALA A 111 CA VAL A 111 CB VAL A 111 CG1 VAL A 111 CG2 VAL A 111 CG2 VAL A 111 C VAL A 111 O VAL A 111 O VAL A 111 N ASP A 112	0.382 0.053 -0.536 6.520 6.398 6.655 6.742 5.652 5.957 4.405 3.293 2.064 0.896 1.663 3.692 3.751	73.423 74.238 73.027 71.091 70.210 70.823 69.446 69.455 68.478 67.321 68.936 68.098 68.091 69.801 67.281 67.989	20.306 21.298 19.438 21.492 20.648 22.786 23.295 24.823 22.808 22.510 21.939 21.485 23.140 21.082 21.139 19.991	1.00100.07 1.00100.07 1.00100.07 1.00 23.54 1.00 50.26 1.00 50.26 1.00 50.26 1.00 50.26 1.00 50.26 1.00 50.26 1.00 98.69 1.00100.07 1.00100.07 1.00100.07 1.00 98.69 1.00 98.69	A A A A A A A A A A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM	821 822 823 824 825 826 827	CA ASP A 112 CB ASP A 112 CG ASP A 112 OD1 ASP A 112 OD2 ASP A 112 C ASP A 112 O ASP A 112	4.371 5.018 4.079 3.135 4.271 5.308 5.536	67.396 68.476 69.630 69.448 70.713 66.207 65.458	18.720 17.865 17.595 16.801 18.185 18.869 17.926	1.00 65.07 1.00 99.77 1.00 99.77 1.00 99.77 1.00 99.77 1.00 65.07	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	828 829 830 831 832 833 834	N PHE A 113 CB PHE A 113 CB PHE A 113 CG PHE A 113 CD1 PHE A 113 CD2 PHE A 113 CD2 PHE A 113 CD2 PHE A 113	5.860 6.746 7.319 8.798 9.407 9.588 10.789	66.035 64.921 65.006 65.124 66.335 64.012	20.058 20.301 21.705 21.730 21.469 21.984 21.461	1.00 61.73 1.00 61.73 1.00 56.73 1.00 56.73 1.00 56.73 1.00 56.73	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	835 836 837 838 839 840 841 842	CE2 PHE A 113 CZ PHE A 113 C PHE A 113 O PHE A 113 N THR A 114 CA THR A 114 CB THR A 114 OG1 THR A 114	10.962 11.567 5.964 5.220 6.143 5.463 6.451 5.754	64.108 65.327 63.630 63.259 62.953 61.689 60.574 59.322	21.977 21.715 20.159 21.071 19.023 18.735 18.353 18.281	1.00 56.73 1.00 56.73 1.00 61.73 1.00 51.46 1.00 51.46 1.00 52.59 1.00 52.59	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	843 844 845 846 847 848	CG2 THR A 114 C THR A 114 O THR A 114 N PRO A 115 CD PRO A 115 CA PRO A 115 CB PRO A 115	7.530 4.627 5.152 3.302 2.489 2.468 1.097	60.453 61.158 60.816 61.095 61.486 60.581 60.452	19.391 19.886 20.957 19.688 18.519 20.775 20.117	1.00 52.59 1.00 51.46 1.00 51.46 1.00 41.98 1.00 51.61 1.00 41.98 1.00 51.61	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	850 851 852 853 854 855 856 857	CG PRO A 115 C PRO A 115 O PRO A 115 N SER A 116 CA SER A 116 CB SER A 116 OG SER A 116 C SER A 116	1.103 3.082 3.723 2.920 3.477 4.994 5.547 3.101	61.597 59.234 58.579 58.833 57.568 57.593 56.438 57.329	19.113 21.150 20.320 22.399 22.825 22.699 23.297 24.263	1.00 51.61 1.00 41.98 1.00 41.98 1.00 71.44 1.00 71.44 1.00 81.81 1.00 71.44	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	858 859 860 861 862 863 864	O SER A 116 N ALA A 117 CA ALA A 117 CB ALA A 117 C ALA A 117 O ALA A 117 N ASP A 118	3,800 1,999 1,496 0,308 2,600 3,788 2,211	57.796 56.605 56.304 55.325 55.731 55.878 55.071	25.167 24.469 25.813 25.741 26.696 26.391 27.785	1.00 71.44 1.00100.07 1.00100.07 1.00 89.40 1.00100.07 1.00100.07 1.00 68.67	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	865 866 867 868 869 870 871	CA ASP A 118 CB ASP A 118 CG ASP A 118 OD1 ASP A 118 OD2 ASP A 118 C ASP A 118 O ASP A 118	3.183 3.846 4.291 3.434 5.496 4.243 5.300 3.928	54.496 53.268 53.511 53.509 53.729 55.545 55.229	28.708 28.082 26.643 25.733 26.415 29.034 29.582 28.697	1.00 68.67 1.00 77.30 1.00 77.30 1.00 77.30 1.00 77.30 1.00 68.67 1.00 68.67 1.00 84.27	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	872 873 874 875 876 877 878	N VAL A 119 CA VAL A 119 CB VAL A 119 CG1 VAL A 119 CG2 VAL A 119 C VAL A 119 O VAL A 119 N GLU A 120	3.928 4.804 5.951 6.553 7.019 4.008 3.488 3.919	56.797 57.948 57.944 59.328 56.947 59.247 59.510 60.055	28.899 27.867 27.744 28.282 28.718 27.635 29.774	1.00 84.27 1.00 70.32 1.00 70.32 1.00 70.32 1.00 84.27 1.00 84.27 1.00 94.10	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	880 881 882 883 884 885 886	CA GLU A 120 CB GLU A 120 CG GLU A 120 CD GLU A 120 OE1 GLU A 120 OE2 GLU A 120 C GLU A 120	3.197 2.408 1.097 0.374 0.063 0.123 4.138	61.329 61.574 60.818 61.162 62.356 60.238 62.512	29.717 31.007 31.143 32.439 32.654 33.243 29.518	1.00 94.10 1.00100.07 1.00100.07 1.00100.07 1.00100.07 1.00100.07 1.00 94.10	A A A A A

MOTA	887	О	GLU A		5.307	62.459	29.901	1.00 94.10	A
ATOM	888	N	ILE A		3.618	63.586	28.932	1.00 65.61	A
ATOM	889	CA	ILE A	121	4.414	64.785	28.706	1.00 65.61	A
MOTA	890	CB	ILE A	121	4.379	65.212	27.231	1.00 99.99	A
MOTA	891	CG2	ILE A	121	5.350	66.360	26.993	1.00 99.99	Α
MOTA	892	CG1			4.740	64.019	26.349	1.00 99.99	A
ATOM	893	CD	ILE A		5.999	63.297	26.775	1.00 99.99	A
	894				3.890	65.924	29.573	1.00 65.61	A
ATOM		C	ILE A						
ATOM	895	0	ILE A		3.383	66.932	29.074	1.00 65.61	A
ATOM	896	N	MET A		4.022	65.738	30.881	1.00 73.05	A
ATOM	897	CA	MET A		3.583	66.696	31.883	1.00 73.05	A
MOTA	898	CB	MET A	122	4.516	66.614	33.095	1.00100.07	Α
MOTA	899	CG	MET A	122	3.825	66.738	34.449	1.00100.07	A
ATOM	900	SD	MET A	122	3.484	65.141	35.256	1.00100.07	A
ATOM	901	CE	MET A	122	2.173	64.515	34.188	1.00100.07	A
ATOM	902	c	MET A		3.520	68.138	31.385	1.00 73.05	A
ATOM	903	õ	MET A		2.609	68.887	31.745	1.00 73.05	A
	904		ASN A		4.484	68.531		1.00 98.98	A
ATOM		N					30.558		
ATOM	905	CA	ASN A		4.509	69.896	30.054	1.00 98.98	A
ATOM	906	CB	ASN A		5.772	70.619	30.526	1.00 99.41	A
MOTA	907	CG	asn a		7.021	70.152	29,800	1.00 99.41	A
ATOM	908	OD1	ASN A	123	7.420	68.994	29.902	1.00 99.41	A
ATOM	909	ND2	ASN A	123	7.639	71.056	29.055	1.00 99.41	A
ATOM	910	С	ASN A	123	4.437	69.985	28.543	1.00 98.98	A
ATOM	911	0	ASN A	123	5.416	69.724	27.849	1.00 98.98	A
ATOM	912	N	PRO A		3.265	70.337	28.005	1.00 50.62	A
ATOM	913	CD	PRO A		2.027	70.802	28.648	1.00100.07	A
MOTA	914	CA	PRO A		3.169	70.452	26.551	1.00 50.62	Ā
			PRO A		1.679		26.327		
ATOM	915	CB				70.610		1.00100.07	A
ATOM	916	CG	PRO A		1.289	71.460	27.488	1.00100.07	A
ATOM	917	С	PRO A		3.921	71.758	26.316	1.00 50.62	A
ATOM	918	0	PRO A		4.892	72.051	27.024	1.00 50.62	A
ATOM	919	N	ASP A	125	3.473	72.561	25.362	1.00100.07	A
MOTA	920	CA	ASP A	125	4.131	73.839	25.117	1.00100.07	A
ATOM	921	CB	ASP A	125	3.710	74.842	26.199	1.00 71.33	A
MOTA	922	CG	ASP A	125	2.506	74.361	27.017	1.00 71.33	A
ATOM	923	OD1	ASP A	125	1.415	74.196	26,440	1.00 71.33	A
ATOM	924	OD2			2.648	74.143	28.241	1.00 71.33	A
ATOM	925	c	ASP A		5.666	73.702	25.089	1.00100.07	A
ATOM	926	ō	ASP A		6.229	73.191	24.122	1.00100.07	A
	927		LEU A		6.333				
ATOM		N				74.162	26.146	1.00 27.66	A
ATOM	928	CA	LEU A		7.789	74.085	26.264	1.00 27.66	A
ATOM	929	CB	LEU A		8.174	72.657	26.651	1.00 48.42	A
ATOM	930	CG	LEU A		9.651	72.263	26.779	1.00 48.42	A
ATOM	931	CD1	LEU A	126	10.257	72.842	28.048	1.00 48.42	A
ATOM	932	CD2	LEU A	126	9.759	70.747	26.804	1.00 48.42	A
ATOM	933	C	LEU A	126	8.538	74.486	24.989	1.00 27.66	A
ATOM	934	0	LEU A	126	9.587	73.915	24.698	1.00 27.66	A
ATOM	935	N	HIS A	127	8.018	75.469	24.249	1.00 55.30	A
MOTA	936	CA		127	8.623	75.917	22.982	1.00 55.30	A
ATOM	937	CB	HIS A		8.847	77.433	22.963	1.00 78.31	A
ATOM	938	CG	HIS A		9.335	77.957	21.640	1.00 78.31	A
ATOM	939				8.997	79.067	20.940	1.00 78.31	A
ATOM	940			127	10.305	77.318	20.894	1.00 78.31	A
ATOM	941		HIS A		10.541	78.011	19.794	1.00 78.31	A
ATOM	942		HIS A		9.761	79.077	19.797	1.00 78.31	Ā
ATOM	943	C	HIS A		9.945	75.246	22.645	1.00 55.30	A
ATOM	944	0	HIS A		11.003	75.862	22.756	1.00 55.30	A
ATOM	945	N	ILE A		9.900	73.992	22.224	1.00 32.89	A
ATOM	946	CA	ILE A		11.143	73.328	21.912	1.00 32.89	A
ATOM	947	СВ	ILE A		10.933	71.841	21.579	1.00 28.75	A
ATOM	948	CG2	ILE A		11.983	71.355	20.562	1.00 28.75	A
MOTA	949	CG1		128	10.986	71.030	22.871	1.00 28.75	A
MOTA	950	CD	ILE A		11.375	69.573	22.673	1.00 28.75	A
ATOM	951	C	ILE A		11.870	73.994	20.762	1.00 32.89	A
ATÓM	952	0	ILE A	128	13.098	74.063	20.783	1.00 32.89	A
ATOM	953	N	ALA A	129	11.150	74.484	19.755	1.00 35.51	A
ATOM	954	CA	ALA A	129	11.844	75.135	18.640	1.00 35.51	Α
ATOM	955	CB	ALA A		12.968	74.222	18.105	1.00 64.61	A
ATOM	956	C	ALA A		11.002	75.620	17.468	1.00 35.51	A
ATOM	957	Ö	ALA A		10.142	74.912	16.941	1.00 35.51	Â
ATOM	958	И	THR A		11.284	76.847	17.062	1.00 56.00	A
						77.454			
ATOM	959	CA	THR A		10.614		15.938	1.00 56.00	A
ATOM	960	CB OC1	THR A		10.783	78.977	15.963	1.00 97.43	A
ATOM	961	OG1	THR A		10.089	79.515	17.095	1.00 97.43	A
ATOM	962	CG2	THR A		10.263	79.600	14.668	1.00 97.43	A
ATOM	963	С	THR A		11.324	76.926	14.716	1.00 56.00	A
MOTA	964	0	THR A		12.433	76.425	14.819	1.00 56.00	A
MOTA	965	N	LEU A	131	10.678	77.017	13.566	1.00 96.96	A
ATOM	966	CA	LEU A	131	11.262	76.591	12.303	1.00 96.96	A
ATOM	967	CB	LEU A	131	11.596	75.069	12.278	1.00 14.70	A
ATOM	968	CG	LEU A		10.673	73.901	12.679	1.00 14.70	A
ATOM	969		LEU A		9.538	73.750	11.686	1.00 14.70	A
ATOM	970	CD2	LEU A		11.487	72.612	12.725	1.00 14.70	A
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	971 972 973 974 975 976 977 978 979 980 981 982 983 984 985	C O N CA CB CC O N CA CB CC CC O CC C	GLU A GLU A GLU A	131 132 132 132 132 132 132 132 132 132	10.225 9.037 10.676 9.758 9.275 10.357 9.840 9.431 9.838 10.375 11.603 9.488 9.816 10.514 10.593 11.146	76.982 77.057 77.294 77.690 79.126 80.190 81.549 81.657 82.502 77.496 77.448 77.309 78.582 78.582 79.683 79	11.276 11.586 10.071 9.030 9.262 9.227 9.680 10.860 8.863 7.658 7.520 6.667 5.253 4.768 3.268 3.2793	1.00 96.96 1.00 96.96 1.00 33.61 1.00100.07 1.00100.07 1.00100.07 1.00100.07 1.00100.07 1.00 33.61 1.00 33.61 1.00 83.31 1.00 83.31 1.00100.07 1.00100.07	A A A A A A A A A A A A A A
ATOM ATOM ATOM	987 988 989 990	OE1 OE2 C	GLU A GLU A GLU A	133 133 133	10.642 12.072 10.652 10.635	81.092 80.049 76.073 75.630	3.266 1.946 4.879 3.728	1.00100.07 1.00100.07 1.00 83.31 1.00 83.31	A A A
ATOM ATOM ATOM ATOM ATOM	991 992 993 994 995	N CA C O N	GLY A GLY A GLY A GLY A	134 134 134	11.370 12.190 12.147 13.135 10.986	75.504 74.345 73.242 72.953 72.615	5.841 5.535 6.571 7.251 6.678	1.00 99.81 1.00 99.81 1.00 99.81 1.00 99.81 1.00100.07	A A A A
ATOM ATOM ATOM ATOM	996 997 998 999	CA C O N	GLY A GLY A GLY A LYS A	135 135 135	10.808 11.883 11.861 12.828	71.535 70.469 69.498 70.642	7.625 7.656 6.894 8.561	1.00100.07 1.00100.07 1.00100.07 1.00 72.43	A A A A
ATOM ATOM ATOM ATOM	1000 1001 1002 1003	CA CB CG CD	LYS A LYS A LYS A LYS A	136 136 136	13.899 15.189 16.330 16.063	69.685 70.282 69.291 68.365	8.702 8.133 7.911 6.724	1.00 72.43 1.00100.07 1.00100.07 1.00100.07	A A A
ATOM ATOM ATOM	1004 1005 1006 1007	CE O	LYS A LYS A LYS A	136 136 136	17.254 16.977 14.006 14.514	67.452 66.466 69.535 70.438	6.455 5.374 10.199 10.852	1.00100.07 1.00100.07 1.00 72.43 1.00 72.43	A A A
ATOM ATOM ATOM ATOM ATOM	1008 1009 1010 1011 1012	N CA CB CG	LEU A LEU A LEU A LEU A	137 137 137	13.513 13.650 12.468 12.654 14.017	68.441 68.333 69.017 69.167 69.743	10.774 12.220 12.903 14.421 14.728	1.00 56.42 1.00 56.42 1.00 27.01 1.00 27.01 1.00 27.01	A A A A
ATOM ATOM ATOM ATOM	1013 1014 1015 1016	CD2 C O N		137 137 137	11.548 13.904 14.781 13.160	70.047 66.971 66.865 65.942	14.998 12.866 13.726 12.463	1.00 27.01 1.00 56.42 1.00 56.42 1.00 42.82	A A A A
ATOM ATOM ATOM	1017 1018 1019 1020		TYR A TYR A TYR A TYR A	138 138 138	13.313 13.670 13.835 12.800	64.596 63.566 62.165 61.560	13.041 11.961 12.522 13.238	1.00 42.82 1.00 53.06 1.00 53.06 1.00 53.06	A A A
ATOM ATOM ATOM ATOM ATOM	1021 1022 1023 1024 1025	CE1 CD2 CE2 CZ OH	A RYT	138 138 138	12.951 15.034 15.195 14.145 14.297	60.307 61.467 60.203 59.639 58.439	13.817 12.390 12.968 13.687 14.329	1.00 53.06 1.00 53.06 1.00 53.06 1.00 53.06 1.00 53.06	A A A A
ATOM ATOM ATOM ATOM	1026 1027 1028 1029	C O N CA	TYR A TYR A MET A MET A	138 138 139 139	14.350 15.546 13.881 14.761	64.479 64.369 64.498 64.385	14.164 13.897 15.411 16.572	1.00 42.82 1.00 42.82 1.00 77.85 1.00 77.85	A A A
ATOM ATOM ATOM ATOM ATOM	1030 1031 1032 1033 1034	CB CG SD CE C	MET A MET A MET A MET A	139 139 139	14.628 14.947 15.042 13.373 14.455	65.614 66.909 68.272 68.931 63.137	17.464 16.760 17.916 17.827 17.395	1.00100.07 1.00100.07 1.00100.07 1.00100.07 1.00 77.85	A A A A
ATOM ATOM ATOM ATOM	1035 1036 1037 1038	O N CA CB	MET A GLU A GLU A	139 140 140 140	13.321 15.477 15.324 15.984	62.915 62.327 61.100 59.966	17.812 17.631 18.387 17.604	1.00 77.85 1.00 29.15 1.00 29.15 1.00 74.04	A A A A
ATOM ATOM ATOM ATOM	1039 1040 1041 1042		GLU A	140 140 140	15.658 16.472 17.696 15.892	58.564 57.505 57.415 56.766	18.069 17.331 17.574 16.504	1.00 74.04 1.00 74.04 1.00 74.04 1.00 74.04	A A A
ATOM ATOM ATOM ATOM ATOM	1043 1044 1045 1046 1047	C O N CA CB	GLU A GLU A VAL A VAL A	140 141 141	16.079 17.310 15.354 15.979 15.594	61.368 61.253 61.701 62.060 63.490	19.685 19.707 20.765 22.059 22.436	1.00 29.15 1.00 29.15 1.00 7.41 1.00 73.37	A A A A
MOTA MOTA MOTA MOTA	1048 1049 1050 1051	CG1 CG2 C	VAL A VAL A VAL A	141 141 141 141	14.110 15.979 15.735 14.745	63.667 63.775 61.219 61.401	22.270 23.874 23.301 23.987	1.00 73.37 1.00 73.37 1.00 7.41 1.00 7.41	A A A
ATOM ATOM ATOM	1052 1053 1054	N CA CB	ARG A ARG A	142	16.675 16.529 17.838	60.353 59.479 58.742	23.631 24.789 25.040	1.00 25.95 1.00 25.95 1.00 45.39	A A A

MOTA MOTA MOTA	1055 1056 1057	CG CD NE	ARG A ARG A ARG A	142	17.775 19.112 19.050	57.735 57.119 56.066	26.157 26.362 27.351	1.00 45.39 1.00 45.39 1.00 45.39	A A A
MOTA MOTA	1058 1059	CZ NH1	ARG A		20.061 21.197	55.753 56.430	28.146 28.051	1.00 45.39 1.00 45.39	A A
MOTA MOTA	1060 1061	NH2 C	ARG A		19.939 16.148	54.768 60.222	29.030 26.057	1.00 45.39 1.00 25.95	A A
ATOM ATOM	1062 1063	O N	ARG A	142	16.176 15.795	61.443 59.455	26.086 27.092	1.00 25.95 1.00100.07	A A
ATOM	1064	CA	VAL A	143	15.426	59.953	28.421	1.00100.07	A
ATOM ATOM	1065 1066	CB CG1	VAL A		13.951 13.727	60.446 61.579	28.483 27.495	1.00100.07 1.00100.07	A A
ATOM ATOM	1067 1068	CG2 C	VAL A		13.007 15.616	59.312 58.797	28.189 29.416	1.00100.07	A A
ATOM ATOM	1069 1070	O N	VAL A ASP A	143	15.115 16.332	57.694 59.053	29.202 30.506	1.00100.07	A A
ATOM	1071	CA	ASP A	144	16.632	58.012	31.495	1.00 51.55	A
ATOM ATOM	1072 1073	CB CG	ASP A		18.153 18.863	57.902 57.204	31.686 30.532	1.00 39.57 1.00 39.57	A A
MOTA MOTA	1074 1075		ASP A ASP A		18.664 19.645	57.585 56.272	29.353 30.822	1.00 39.57 1.00 39.57	A A
MOTA	1076 1077	C	ASP A	144	16.017 15.578	58.180 59.262	32.881	1.00 51.55 1.00 51.55	A A
MOTA MOTA	1078	N	ARG A	145	16.003	57.093	33.644	1.00 64.20	A
ATOM ATOM	1079 1080	CA CB	ARG A ARG A		15.492 15.285	57.149 55.736	35.001 35.561	1.00 64.20 1.00 99.82	A A
ATOM ATOM	1081 1082	CG CD	ARG A		14.184 12.803	55.627 55.635	36.619 35.970	1.00 99.82 1.00 99.82	A A
ATOM	1083 1084	NE CZ	ARG A	145	11.743	56.001 56.077	36.906 36.585	1.00 99.82	A
ATOM ATOM	1085	NH1	ARG A	145	10.059	55.806	35.351	1.00 99.82 1.00 99.82	A A
ATOM ATOM	1086 1087	NH2 C	ARG A		9.565 16.642	56.442 57.841	37.494 35.721	1.00 99.82 1.00 64.20	A A
ATOM ATOM	1088 1089	O N	ARG A GLY A		17.790 16.368	57.689 58.608	35.318 36.766	1.00 64.20 1.00 85.65	A A
ATOM	1090	CA	GLY A	146	17.482	59.259 59.789	37.424	1.00 85.65	A
ATOM ATOM	1091 1092	с 0	GLY A	146	17.289 16.175	59.926	38.825 39.330	1.00 85.65 1.00 85.65	A A
MOTA MOTA	1093 1094	N CA	VAL A		18.421 18.476	60.099 60.624	39.443 40.792	1.00 74.35 1.00 74.35	A A
MOTA MOTA	1095 1096	CB CG1	VAL A		18.627 18.898	59.499 60.070	41.796 43.181	1.00 36.54 1.00 36.54	A A
ATOM ATOM	1097 1098	CG2 C		147	17.383 19.695	58.628 61.514	41.771 40.878	1.00 36.54 1.00 74.35	A A
ATOM	1099	0	VAL A	147	20.760	61.174	40.357	1.00 74.35	A
ATOM ATOM	1100 1101	N CA	GLY A		19.547 20.673	62.650 63.553	41.538 41.650	1.00 50.28 1.00 50.28	A A
ATOM ATOM	1102 1103	C O	GLY A		20.896 20.062	64.253 64.160	40.322 39.411	1.00 50.28 1.00 50.28	A A
ATOM ATOM	1104 1105	N CA	TYR A		22.031 22.396	64.941 65.694	40.212 39.015	1.00 65.06 1.00 65.06	A A
ATOM	1106	CB	TYR A	149	22.614	67.157	39.419	1.00 46.08	A
ATOM ATOM	1107 1108		TYR A	149	23.368 23.036	68.042 68.092	38.448 37.098	1.00 46.08 1.00 46.08	A A
ATOM ATOM	1109 1110	CE1 CD2	TYR A		23.700 24.385	68.964 68.882	36.226 38.904	1.00 46.08 1.00 46.08	A A
ATOM ATOM	1111 1112	CE2 CZ	TYR A		25.052 24.708	69.750 69.787	38.043 36.708	1.00 46.08 1.00 46.08	A A
ATOM ATOM	1113 1114	OH	TYR A	149	25.384 23.645	70.637 65.122	35.866	1.00 46.08 1.00 65.06	A A
MOTA	1115	0	TYR A	149	24.665	64.975	38.380	1.00 65.06	A
MOTA MOTA	1116 1117	N CA	VAL A	150	23.557 24.702	64.778 64.230	37.100 36.381	1.00 45.82 1.00 45.82	A A
MOTA MOTA	1118 1119	CB CG1	VAL A		24.612 25.897	62.709 62.185	36.233 35.631	1.00 23.65 1.00 23.65	A A
ATOM ATOM	1120 1121	CG2 C		150	24.388 24.774	62.075 64.872	37.588 35.012	1.00 23.65 1.00 45.82	A A
ATOM	1122	0	VAL A	150	23.782	64.947	34.298	1.00 45.82	A
ATOM ATOM	1123 1124	N CD	PRO A PRO A	151	25.962 27.109	65.347 65.558	34.630 35.532	1.00 38.98 1.00 32.54	A A
ATOM ATOM	1125 1126	CA CB	PRO A		26.179 26.842	66.006 67.290	33.340 33.764	1.00 38.98 1.00 32.54	A A
ATOM ATOM	1127 1128	CG C	PRO A		27.754 27.057	66.801 65.214	34.962 32.397	1.00 32.54 1.00 38.98	A A
ATOM	1129	0	PRO A	151	27.363	64.055	32.666	1.00 38.98	A
ATOM ATOM	1130 1131	N CA	ALA A	152	27.456	65.851	31.296	1.00 38.13	A A
MOTA MOTA	1132 1133	CB C	ALA A		28.853 29.507	66.249 64.555	29.321 31.041	1.00 57.22 1.00 38.13	A A
MOTA MOTA	1134 1135	O N	ALA A GLU A	152	30.630 29.184	65.079 63.394	31.115 31.595	1.00 38.13 1.00100.07	A A
MOTA	1136	CA	GLU A	153	30.083	62.531 62.750	32.330	1.00100.07	A
MOTA MOTA	1137 1138	CB CG	GLU A GLU A		29.921 30.804	61.861	33.830 34.672	1.00 63.28 1.00 63.28	A A

ATOM	1139	CD	GLU A	153	30.083	61.327	35.895	1.00 63.28	A
ATOM	1140	OE1			29.707	62.134	36.775	1.00 63.28	A
ATOM	1141	OE2	GLU A		29.884	60.094	35.972	1.00 63.28	A
ATOM	1142	C	GLU A		29.514	61.186	31.918	1.00100.07	A
ATOM	1143	õ	GLU A		30.248	60.266	31.557	1.00100.07	A
		N	ARG A				31.948	1.00 97.84	
MOTA	1144				28.184	61.101			A
ATOM	1145	CA	ARG A		27.480	59.892	31.549	1.00 97.84	A
ATOM	1146	CB	ARG A		26.333	59.588	32.509	1.00100.07	A
ATOM	1147	CG	ARG A		26.835	59.067	33.858	1.00100.07	A
ATOM	1148	CD	ARG A		25.753	58.328	34.644	1.00100.07	A
MOTA	1149	NE	ARG A		26.273	57.725	35.874	1.00100.07	A
MOTA	1150	CZ	ARG A		25.573	56.915	36.665	1.00100.07	A
MOTA	1151	NH1			24.319	56.607	36.358	1.00100.07	A
ATOM	1152	NH2			26.128	56.407	37.760	1.00100.07	A
ATOM	1153	С	ARG A	154	26.980	60.063	30.130	1.00 97.84	A
ATOM	1154	0	ARG A		25.929	60.668	29.889	1.00 97.84	A
ATOM	1155	N	HIS A	155	27.777	59.526	29.206	1.00 33.73	A
MOTA	1156	CA	HIS A	155	27.547	59.567	27.759	1.00 33.73	A
MOTA	1157	CB	HIS A	155	28.605	58.703	27.087	1.00100.07	A
MOTA	1158	CG	HIS A	155	28.798	57.374	27.753	1.00100.07	A
ATOM	1159	CD2	HIS A	155	28.156	56.191	27.590	1.00100.07	A
ATOM	1160	ND1	HIS A	155	29.743	57.164	28.734	1.00100.07	A
ATOM	1161	CE1	HIS A	155	29.680	55.908	29.141	1,00100.07	A
ATOM	1162	NE2	HIS A	155	28.725	55.296	28.462	1.00100.07	Α
ATOM	1163	С	HIS A	155	26.181	59.164	27.167	1.00 33.73	A
ATOM	1164	0	HIS A	155	25.329	58.515	27.808	1.00 33.73	A
MOTA	1165	N	GLY A	156	26.008	59.551	25.906	1.00 73.63	A
MOTA	1166	CA	GLY A		24.810	59.225	25.156	1.00 73.63	A
ATOM	1167	С	GLY A		25.191	58.230	24.065	1,00 73.63	A
ATOM	1168	Õ	GLY A		24.863	58.409	22.889	1.00 73.63	A
ATOM	1169	N	ILE A		25.909	57.180	24.462	1.00100.07	A
ATOM	1170	CA	ILE A		26.344	56.139	23.535	1.00100.07	A
ATOM	1171	CB	ILE A		27.412	55.195	24.182	1.00100.07	A
MOTA	1172	CG2	ILE A		27.894	54.156	23.169	1.00100.07	A
MOTA	1173	CG1	ILE A		28.614	56.005	24.683	1.00100.07	A
ATOM	1174	CD	ILE A	_	29.309	56.847	23.646	1.00100.07	A
ATOM	1175	C	ILE A		25.139	55.307	23.103	1.00100.07	A
ATOM	1176	õ	ILE A		25.145	54.081	23.220	1.00100.07	A
ATOM	1177	N	LYS A		24.103	55.985	22.615	1.00 86.89	A
ATOM	1178	CA	LYS A		22.887	55.322	22.154	1.00 86.89	Ä
	1179	CB	LYS A		21.673	56.195	22.471	1.00 94.08	A
MOTA		CG	LYS A		20.346	55.588	22.471	1.00 94.08	A
MOTA	1180 1181	CD	LYS A		19.275	56.658	21.978	1.00 94.08	A
MOTA	1182	CE	LYS A					1.00 94.08	A
ATOM					18.080	56.183	21.166	1.00 94.08	A
ATOM	1183	NZ	LYS A		17.231 23.019	57.331 55.136	20.740		A
ATOM	1184	C	LYS A			55.136	20.647	1.00 86.89	
ATOM	1185	0	LYS A		23.473	54.091	20.170	1.00 86.89	A
ATOM	1186	N	ASP A		22.618 22.722	56.159	19.902 18.448	1.00 37.45	A A
MOTA	1187	CA CB	ASP A		21.834	56.139 57.243	17.857	1.00100.07	A
MOTA	1188		ASP A		21.704	57.154	16.349	1.00100.07	A
ATOM	1189 1190	CG OD1	ASP A		22.702	57.415	15.642	1.00100.07	A
ATOM	1191	OD2			20.598	56.825	15.869	1.00100.07	A
ATOM ATOM	1192	C	ASP A		24.198	56.424	18.190	1.00 37.45	A
ATOM	1193	õ	ASP A		24.554	57.212	17.305	1.00 37.45	A
MOTA	1194	N	ARG A		25.040	55.776	18.998	1.00100.07	A
MOTA	1195	CA	ARG A		26.490	55.930	18.945	1.00100.07	Ā
ATOM	1196	CB	ARG A		27.194	54.577	19.099	1.00100.07	A
ATOM	1197	CG	ARG A		28.723	54.671	18.980	1.00100.07	A
ATOM	1198	CD	ARG A		29.369	55.377	20.176	1.00100.07	• A
ATOM	1199	NE	ARG A		30.564	56.136	19.801	1.00100.07	A
ATOM	1200	CZ	ARG A		31.557	56.443	20.634	1.00100.07	A
MOTA	1201		ARG A		31.515	56.051	21.903	1.00100.07	A
MOTA	1202	NH2			32.592	57.152	20.199	1.00100.07	A
ATOM	1203	C	ARG A		26.941	56.589	17.664	1.00100.07	A
ATOM	1204	Õ	ARG A		27.352	55.892	16.737	1.00100.07	A
ATOM	1205	N	ILE A		26.860	57.922	17.610	1.00 52.94	A
ATOM	1206	CA	ILE A		27.275	58.641	16.413	1.00 52.94	A
ATOM	1207	CB	ILE A		26.764	57.886	15.141	1.00 60.99	A
MOTA	1208	CG2			26.149	58.843	14.152	1.00 60.99	Ā
ATOM	1209		ILE A		27.925	57.115	14.500	1.00 60.99	A
ATOM	1210	CD	ILE A		27.504	55.849	13.786	1.00 60.99	A
ATOM	1211	C	ILE A		26.923	60.117	16.264	1.00 52.94	A
ATOM	1212	õ	ILE A		27.590	60.840	15.522	1.00 52.94	A
ATOM	1213	N	ASN A		25.878	60.572	16.939	1.00 99.95	Ã
ATOM	1214	CA	ASN A		25.502	61.975	16.837	1.00 99.95	Ä
MOTA	1215	CB	ASN A		24.505	62.166	15.694	1.00 96.68	A
MOTA	1215	CG	ASN A		24.995	61.559	14.386	1.00 96.68	A
ATOM	1217		ASN A		26.119	61.810	13.947	1.00 96.68	Ā
ATOM	1218		ASN A		24.146	60.756	13.757	1.00 96.68	A
	1219	C	ASN A		24.905	62.399	18.163	1.00 90.00	A
ATOM ATOM	1219	0	ASN A		24.515	63.544	18.365	1.00 99.95	Ā
ATOM	1221	N	ALA A		24.872	61.437	19.066	1.00 51.97	A
ATOM	1222	CA	ALA A		24.337	61.587	20.402	1.00 51.97	A
111 OF1	1000	-43		103	24.331	31.307	20.402	±.00 J1.J1	

ATOM   1225	ATOM ATOM	1223 1224	CB C	ALA A ALA A		25.087 24.279	60.647 62.980	21.333 21.037	1.00100.07 1.00 51.97	A A
ATOM 1227 CA ILE A 164 25.456 65.060 21.888 1.00 40.41 A ATOM 1229 CG ILE A 164 25.247 66.343 19.377 1.00 22.84 A ATOM 1229 CG ILE A 164 25.247 66.343 19.377 1.00 22.84 A ATOM 1230 CGI ILE A 164 25.247 66.343 19.377 1.00 22.84 A ATOM 1231 CGI ILE A 164 27.272 66.343 19.377 1.00 22.84 A ATOM 1232 C ILE A 164 24.834 64.991 22.976 1.00 40.41 A ATOM 1232 C ILE A 164 24.834 64.991 22.976 1.00 40.41 A ATOM 1234 N PRO A 165 25.101 63.912 23.728 1.00 40.41 A ATOM 1235 CD PRO A 165 26.390 63.290 23.641 1.00 26.38 A ATOM 1235 CD PRO A 165 26.390 63.290 23.641 1.00 26.38 A ATOM 1237 CB PRO A 165 26.390 63.290 23.641 1.00 26.38 A ATOM 1239 C PRO A 165 26.5101 63.912 23.728 1.00 40.41 A ATOM 1234 CB PRO A 165 26.5101 63.912 23.728 1.00 40.41 A ATOM 1234 CB PRO A 165 26.5101 63.912 23.728 1.00 40.41 A ATOM 1234 CB PRO A 165 26.5101 63.912 23.728 1.00 40.41 A ATOM 1234 CB PRO A 165 24.511 63.741 25.751 62.800 25.799 1.00 26.38 A ATOM 1240 O PRO A 165 22.573 62.800 25.799 1.00 26.38 A ATOM 1242 CA VALA A 166 23.003 65.197 26.256 1.00 48.47 A ATOM 1241 N VALA A 166 23.003 65.197 26.256 1.00 48.47 A ATOM 1242 CA VALA A 166 21.175 66.826 26.611 1.00 39.93 A ATOM 1244 CGI VALA A 166 21.175 66.826 26.611 1.00 39.93 A ATOM 1244 CGI VALA A 166 21.175 66.826 26.611 1.00 39.93 A ATOM 1249 C AND A 165 22.180 67.293 27.472 1.00 39.93 A ATOM 1249 C AND A 166 22.180 66.207 25.453 1.00 48.47 A ATOM 1249 C AND A 166 22.180 66.207 25.453 1.00 48.47 A ATOM 1249 C AND A 166 22.180 66.207 25.453 1.00 48.47 A ATOM 1249 C AND A 166 22.180 66.207 35.453 1.00 49.93 A ATOM 1250 CB ASP A 167 22.754 67.174 29.404 1.00 51.97 A ATOM 1249 C AND A 167 22.754 67.174 29.404 1.00 51.97 A ATOM 1255 C AND A 167 22.754 67.174 29.404 1.00 51.97 A ATOM 1255 C AND A 167 22.754 67.174 29.404 1.00 51.97 A ATOM 1255 C AND A 167 22.754 67.174 29.404 1.00 51.97 A ATOM 1255 C AND A 167 22.754 67.174 29.404 1.00 51.97 A ATOM 1255 C AND A 167 22.754 67.174 29.404 1.00 51.97 A ATOM 1255 C AND A 167 22.754 67.404 30.679 1.00 51.97 A ATOM 1255 C AND A 167 25.505 C AND A 167 2	ATOM	1225	0	ALA A	163	23.253	63.358	21.607	1.00 51.97	A
ATOM 1229 CG2 ILE A 164 25.247 66.343 19.377 1.00 22.84 A A ATOM 1231 CG1 ILE A 164 22.472 67.120 20.245 1.00 22.84 A A ATOM 1231 C ILE A 164 22.472 67.120 20.245 1.00 22.84 A A ATOM 1232 C ILE A 164 22.472 67.120 20.245 1.00 22.84 A A ATOM 1232 C ILE A 164 22.472 67.120 20.245 1.00 22.84 A A ATOM 1235 C ILE A 164 24.161 65.931 22.976 1.00 40.41 A A ATOM 1235 CD PRO A 165 24.161 65.932 23.3928 1.00 40.42 2 A A ATOM 1235 CD PRO A 165 24.161 65.932 23.3928 1.00 40.42 2 A A ATOM 1235 CD PRO A 165 24.531 63.742 25.075 1.00 16.22 A A ATOM 1238 CP RO A 165 26.835 63.212 23.077 1.00 26.38 A A ATOM 1239 C PRO A 165 26.835 63.215 25.077 1.00 26.38 A ATOM 1239 C PRO A 165 26.835 63.215 25.077 1.00 26.38 A ATOM 1239 C PRO A 165 25.107 65.931 25.890 1.00 16.22 A ATOM 1240 N ATOM 1241 N ATOM 1242 N ATOM 1243 N ATOM 1244 N ATOM 1245 CG2 VAL A 166 22.600 66.075 67.32 68.971 1.00 39.93 A ATOM 1245 CG2 VAL A 166 22.680 66.079 27.472 1.00 39.93 A ATOM 1246 C VAL A 166 22.680 66.079 27.472 1.00 39.93 A ATOM 1246 C VAL A 166 22.680 66.079 27.472 1.00 39.93 A ATOM 1247 C VAL A 166 22.680 66.079 27.472 1.00 39.93 A ATOM 1247 C VAL A 166 22.680 66.079 27.472 1.00 39.93 A ATOM 1247 C VAL A 166 22.680 66.079 27.472 1.00 39.93 A ATOM 1248 N ASP A 167 22.680 66.079 27.472 1.00 39.93 A ATOM 1249 CA ASP A 167 22.680 66.079 27.472 1.00 39.93 A ATOM 1245 CG2 VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1248 N ASP A 167 22.680 66.071 28.453 1.00 48.47 A ATOM 1249 CA ASP A 167 22.680 66.071 28.453 1.00 48.47 A ATOM 1256 C VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1256 C VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1257 C ASP A 167 22.568 66.456 31.315 1.00 67.98 A ATOM 1258 C ASP A 167 22.680 66.051 22.570 1.00 51.97 A ATOM 1258 C ASP A 167 22.680 66.051 22.570 1.00 51.97 A ATOM 1258 C ASP A 167 22.680 66.051 22.570 1.00 51.97 A ATOM 1258 C ASP A 167 22.680 66.051 22.570 1.00 51.97 A ATO	ATOM	1227	CA	ILE A	164	25.456	65.060	21.588	1.00 40.41	
ATOM 1230 CGI TLE A 164 23.215 65.966 20.793 1.00 22.84 A ATOM 1231 CD TLE A 164 22.472 67.120 20.245 1.00 22.84 A ATOM 1232 C TLE A 164 24.834 64.991 22.976 1.00 40.41 A ATOM 1233 0 TLE A 164 24.834 64.991 22.976 1.00 40.41 A ATOM 1233 0 TLE A 164 24.834 64.991 22.976 1.00 40.41 A ATOM 1235 CD TLE A 164 24.834 64.991 22.976 1.00 40.41 A ATOM 1235 CD TLE A 165 25.108 63.922 23.728 1.00 16.22 A ATOM 1235 CD TLE A 165 25.108 63.922 23.728 1.00 16.22 A ATOM 1237 CD TLE A 165 25.108 63.922 23.728 1.00 16.22 A ATOM 1239 C TRO PRO A 165 25.573 62.880 25.799 1.00 26.38 A ATOM 1239 C TRO A 165 25.573 62.880 25.799 1.00 26.38 A ATOM 1239 C TRO A 165 24.240 65.048 25.793 1.00 16.22 A ATOM 1240 C PRO A 165 24.240 65.048 25.793 1.00 16.22 A ATOM 1242 CA VAL A 166 23.003 65.197 26.256 1.00 48.47 A ATOM 1243 C B VAL A 166 23.003 65.197 26.256 1.00 48.47 A ATOM 1243 C B VAL A 166 21.175 66.829 26.611 1.00 39.93 A ATOM 1243 C CC VAL A 166 22.616 65.275 27.21 1.00 28.47 A ATOM 1246 C CV VAL A 166 22.616 65.107 28.453 1.00 48.47 A ATOM 1246 C CV VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1246 C CV VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1246 C CV VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1246 C VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1246 C CV VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1246 C CV VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1246 C CV VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1250 C B ASP A 167 22.754 67.174 29.240 1.00 51.97 A ATOM 1250 C B ASP A 167 22.754 67.174 29.240 1.00 51.97 A ATOM 1250 C B ASP A 167 22.754 67.174 29.240 1.00 51.97 A ATOM 1250 C B ASP A 167 22.586 66.454 31.333 1.461 1.00 67.98 A ATOM 1255 C A ATOM 1255 C A ATOM 1255 C A ATOM 1255 C A ATOM 1256 C A ATOM 1257 C A ATOM 1257 C A ATOM 1257 C A ATOM 1258 C A ATOM										
ATOM 1232 C ILE A 164 24, 834 64,991 22,976 1,00 40,41 A ATOM 1234 N PRO A 165 25,101 63,912 23,728 1,00 16,22 A ATOM 1235 CD PRO A 165 25,101 63,912 23,728 1,00 16,22 A ATOM 1235 CD PRO A 165 24,531 63,743 25,075 1,00 16,22 A ATOM 1235 CD PRO A 165 24,531 63,743 25,075 1,00 16,22 A ATOM 1236 CD PRO A 165 24,531 63,743 25,075 1,00 16,22 A ATOM 1239 CD PRO A 165 24,531 63,743 25,075 1,00 16,22 A ATOM 1239 CD PRO A 165 24,531 63,743 25,075 1,00 16,22 A ATOM 1239 CD PRO A 165 24,530 65,083 25,779 1,00 26,38 A ATOM 1249 C PRO A 165 24,530 65,048 25,793 1,00 16,22 A ATOM 1241 N VAL A 166 23,003 65,197 26,256 1,00 48,47 A ATOM 1242 CA VAL A 166 23,003 65,197 26,256 1,00 48,47 A ATOM 1243 CB VAL A 166 21,175 66,826 26,611 1,00 39,93 A ATOM 1243 CB VAL A 166 21,175 66,826 26,611 1,00 39,93 A ATOM 1246 CG VAL A 166 21,175 66,826 26,611 1,00 39,93 A ATOM 1246 CG VAL A 166 21,175 66,826 26,611 1,00 39,93 A ATOM 1246 CG VAL A 166 21,175 66,826 26,611 1,00 39,93 A ATOM 1248 N ASP A 167 22,686 67,931 27,174 1,00 39,93 A ATOM 1248 N ASP A 167 22,764 67,931 27,174 1,00 39,93 A ATOM 1248 N ASP A 167 22,764 67,174 29,940 1,00 41,97 A ATOM 1249 CA SPA A 167 22,764 67,174 29,940 1,00 41,97 A ATOM 1250 CB ASP A 167 22,164 69,173 39,940 1,00 41,97 A ATOM 1250 CB ASP A 167 22,164 67,174 39,940 1,00 41,97 A ATOM 1250 CB ASP A 167 22,164 69,173 39,940 1,00 41,97 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 41,97 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 41,97 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 41,97 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 49,41 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 49,41 A ATOM 1251 CG ASP A 167 22,164 69,174 39,940 1,00 67,98 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 67,98 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 67,98 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 67,98 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 67,98 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 67,98 A ATOM 1250 CB ASP A 167 22,164 69,174 39,940 1,00 67,98 A										Α
ATOM 1234 N PRO A 165	ATOM	1232	C	ILE A	164	24.834	64.991	22.976	1.00 40.41	A
ATOM 1235 CD PRO A 165										
ATOM 1237 CB PRO A 1655 25.573 62.880 25.799 1.00 26.38 A A ATOM 1238 CG PRO A 1655 26.835 63.255 25.077 1.00 26.38 A A ATOM 1240 O PRO A 165 24.240 65.048 25.107 1.00 16.22 A A ATOM 1241 N VAL A 166 23.003 65.197 26.256 1.00 48.47 A A ATOM 1242 CA VAL A 166 23.003 65.197 26.256 1.00 48.47 A A ATOM 1242 CA VAL A 166 23.003 65.197 26.256 1.00 48.47 A A ATOM 1242 CA VAL A 166 21.175 66.326 26.611 1.00 39.93 A A ATOM 1243 CGI VAL A 166 21.175 66.326 26.611 1.00 39.93 A A ATOM 1245 CGI VAL A 166 21.175 66.326 26.611 1.00 39.93 A A ATOM 1245 CGI VAL A 166 21.176 67.2931 25.174 1.00 39.93 A A ATOM 1245 CGI VAL A 166 21.176 67.2931 25.174 1.00 39.93 A A ATOM 1245 CGI VAL A 166 21.166 67.293 27.472 1.00 39.93 A A ATOM 1245 CGI VAL A 166 21.150 67.2931 25.174 1.00 39.93 A A ATOM 1245 CGI VAL A 166 21.150 67.2931 25.174 1.00 39.93 A A ATOM 1245 CGI VAL A 166 21.150 67.2931 25.174 1.00 39.93 A A ATOM 1250 CG ASP A 167 22.861 67.493 10.675 10.694 10.00 51.97 A ATOM 1250 CG ASP A 167 22.861 67.493 10.679 10.00 51.97 A ATOM 1250 CG ASP A 167 22.861 67.494 10.00 51.97 A ATOM 1251 CG ASP A 167 23.156 68.417 31.292 1.00 67.98 A ATOM 1251 CG ASP A 167 23.558 68.343 31.461 1.00 67.98 A ATOM 1252 ODI ASP A 167 25.538 68.343 31.461 1.00 67.98 A ATOM 1255 O ASP A 167 25.538 68.343 31.461 1.00 67.98 A ATOM 1255 O ASP A 167 25.538 68.343 31.461 1.00 67.98 A ATOM 1255 O ASP A 167 20.588 60.354 30.178 1.00 67.98 A ATOM 1255 O ASP A 167 20.588 60.354 30.178 1.00 67.99 A ATOM 1255 O ASP A 167 20.588 60.354 30.178 1.00 67.99 A ATOM 1256 O ASP A 167 20.588 60.354 30.078 10.00 49.41 A ATOM 1256 CG ASP A 167 20.588 60.354 30.078 10.00 49.41 A ATOM 1256 CG ASP A 167 20.588 60.554 30.333 1.00 49.41 A ATOM 1256 CG ASP A 167 20.588 60.554 30.078 10.00 49.41 A ATOM 1256 CG ASP A 167 20.588 60.554 30.333 1.00 49.41 A ATOM 1265 CG ASP A 167 20.588 60.554 30.078 10.00 49.41 A ATOM 1265 CG ASP A 167 20.588 60.554 30.078 10.00 49.41 A ATOM 1265 CG ASP A 167 20.588 60.594 30.078 10.00 49.41 A ATOM 1263 CG ASP A 167 20.588 60.594 30.00 49.494 40.494 30.0							63.209	23.641	1.00 26.38	
ATOM 1249 C PRO A 1655	MOTA	1237	CB	PRO A	165	25.573	62.880	25.799	1.00 26.38	Α
ATOM 1240 N PRO A 1655 25.107 65.913 25.890 1.00 16.22 A ATOM 1241 N VAL A 166 22.601 65.197 62.556 1.00 48.47 A A ATOM 1242 CA VAL A 166 22.601 66.395 26.971 1.00 48.47 A A ATOM 1243 CB VAL A 166 22.601 66.395 26.971 1.00 48.47 A A ATOM 1244 CG1 VAL A 166 21.175 66.326 26.611 1.00 39.93 A ATOM 1245 CG2 VAL A 166 20.750 67.993 27.472 1.00 39.93 A ATOM 1245 CG2 VAL A 166 22.680 66.107 28.453 1.00 48.47 A ATOM 1245 CG2 VAL A 166 22.680 66.107 28.453 1.00 48.47 A ATOM 1246 C VAL A 166 22.680 66.107 28.453 1.00 48.47 A ATOM 1248 N ASP A 167 22.534 67.174 29.244 1.00 51.97 A ATOM 1248 N ASP A 167 22.754 67.474 29.244 1.00 51.97 A ATOM 1250 CA A A 166 22.680 66.107 28.453 1.00 48.47 A ATOM 1251 CG ASP A 167 22.536 68.917 30.252 1.00 67.98 A ATOM 1251 CG ASP A 167 22.553 68.947 30.252 1.00 67.98 A ATOM 1252 001 ASP A 167 22.553 68.947 30.252 1.00 67.98 A ATOM 1253 002 ASP A 167 22.558 66.354 30.690 1.00 51.97 A ATOM 1255 C A ALA A 168 20.669 66.554 30.690 1.00 51.97 A ATOM 1255 C A ALA A 168 20.669 66.554 30.690 1.00 67.98 A ATOM 1255 C A ALA A 168 20.669 66.554 30.690 1.00 51.97 A ATOM 1255 C A ALA A 168 20.669 65.846 33.333 1.00 49.41 A ATOM 1255 C A ALA A 168 20.169 66.554 30.690 1.00 51.97 A ATOM 1255 C A ALA A 168 20.169 66.554 30.690 1.00 51.97 A ATOM 1250 C ALA A 168 20.169 66.554 30.690 1.00 51.97 A ATOM 1250 C ALA A 168 20.169 66.554 30.690 1.00 51.97 A ATOM 1250 C ALA A 168 20.169 66.554 30.690 1.00 51.97 A ATOM 1250 C ALA A 168 20.169 66.554 30.690 1.00 51.97 A ATOM 1250 C ALA A 168 20.169 66.554 30.690 1.00 51.97 A ATOM 1250 C ALA A 168 20.169 66.554 30.690 1.00 51.97 A ATOM 1250 C ALA A 168 20.159 66.554 30.690 1.00 51.97 A ATOM 1261 N ILE A 169 18.981 66.271 34.851 1.00 49.41 A ATOM 1261 N ILE A 169 18.981 66.557 34.328 1.00 49.41 A ATOM 1262 C A ILE A 169 18.981 66.557 34.328 1.00 49.41 A ATOM 1265 C A ALA A 168 20.159 66.554 30.599 1.00 49.41 A ATOM 1265 C A ALA A 168 20.159 66.554 30.599 1.00 49.41 A ATOM 1268 C A ALA A 168 20.159 66.554 30.599 1.00 49.41 A ATOM 1268 C A A A 168 20.159 66.554 30.599 1										
ATOM 1242 CB VAL A 166	ATOM								1.00 16.22	
ATOM 1245 CG2 VAL A 166	ATOM	1242	CA	VAL A	166	22.601	66.395	26.971	1.00 48.47	A
ATOM 1246 C VAL A 166 22.680 66.107 28.453 1.00 48.47 A ATOM 1247 O VAL A 166 22.681 64.943 28.875 1.00 48.47 A ATOM 1248 N ASP A 167 22.861 67.049 30.679 1.00 51.97 A ATOM 1250 CB ASP A 167 22.861 67.049 30.679 1.00 51.97 A ATOM 1250 CB ASP A 167 22.861 67.049 30.679 1.00 51.97 A ATOM 1251 CG ASP A 167 22.861 67.049 31.292 1.00 67.98 A ATOM 1252 OD1 ASP A 167 24.547 68.917 30.956 1.00 67.98 A ATOM 1252 OD1 ASP A 167 24.547 68.917 30.956 1.00 67.98 A ATOM 1253 OD2 ASP A 167 24.546 69.885 30.178 1.00 67.98 A ATOM 1255 O ASP A 167 24.546 69.885 30.178 1.00 67.98 A ATOM 1255 O ASP A 167 24.546 69.885 30.178 1.00 67.98 A ATOM 1255 O ASP A 167 22.538 68.343 31.461 1.00 67.98 A ATOM 1255 O ASP A 167 20.568 66.354 30.178 1.00 51.97 A ATOM 1255 O ASP A 167 20.568 66.354 30.690 1.00 51.97 A ATOM 1255 O ASP A 168 20.699 66.346 31.316 1.00 51.97 A ATOM 1255 O ASP A 168 20.699 66.486 31.316 1.00 51.97 A ATOM 1255 O ASP A 168 20.699 66.486 31.316 1.00 51.97 A ATOM 1255 O ASP A 168 20.699 66.486 31.316 1.00 51.97 A ATOM 1258 CB ALA A 168 20.699 66.486 31.316 1.00 49.41 A ATOM 1260 O ALA A 168 20.159 66.525 34.076 1.00100.07 A ATOM 1261 N LLE A 169 18.981 66.271 34.851 1.00 49.41 A ATOM 1262 CA LLE A 169 18.981 66.271 34.851 1.00 49.41 A ATOM 1262 CA LLE A 169 18.382 67.553 35.993 1.00 49.41 A ATOM 1264 CG2 LLE A 169 18.382 67.553 35.993 1.00 49.41 A ATOM 1264 CG2 LLE A 169 18.382 67.553 35.993 1.00 49.41 A ATOM 1264 CG2 LLE A 169 18.382 67.553 35.993 1.00 49.41 A ATOM 1264 CG2 LLE A 169 18.382 67.553 35.993 1.00 49.41 A ATOM 1268 O LLE A 169 17.881 66.271 53.3752 1.00100.07 A ATOM 1267 CG LLE A 169 18.406 18.325 69.629 36.057 1.00100.07 A ATOM 1268 C LLE A 169 18.406 18.325 69.629 36.057 1.00100.07 A ATOM 1270 CA PHE A 170 17.779 67.481 33.791 1.00100.07 A ATOM 1270 CA PHE A 170 17.779 67.481 33.791 1.00100.07 A ATOM 1270 CA PHE A 170 17.797 67.481 33.595 1.00 56.10 A ATOM 1270 CA PHE A 170 19.936 66.315 37.552 1.005 56.10 A ATOM 1272 CG PHE A 170 19.936 66.241 39.934 1.00 55.78 A ATOM 1272 CG PHE A 170 19.936 66.241 39.934										
ATOM 1248 N ASP A 167 22.681 64.943 28.875 1.00 48.47 A ATOM 1248 N ASP A 167 22.754 67.174 29.240 1.00 51.97 A ATOM 1249 CA ASP A 167 22.754 67.174 29.240 1.00 51.97 A ATOM 1250 CB ASP A 167 23.156 68.417 30.956 1.00 67.98 A ATOM 1251 CG ASP A 167 24.547 68.917 30.956 1.00 67.98 A ATOM 1252 ODI ASP A 167 25.538 68.343 31.461 1.00 67.98 A ATOM 1253 ODZ ASP A 167 25.538 68.343 31.461 1.00 67.98 A ATOM 1253 ODZ ASP A 167 22.558 68.354 31.461 1.00 67.98 A ATOM 1255 C ASP A 167 21.621 66.456 31.316 1.00 51.97 A ATOM 1255 C ASP A 167 21.621 66.456 31.316 1.00 51.97 A ATOM 1255 C ASP A 167 21.621 66.456 31.316 1.00 51.97 A ATOM 1255 C ASP A 168 21.769 66.051 32.570 1.00 49.41 A ATOM 1256 C ASP A 168 21.769 66.051 32.570 1.00 49.41 A ATOM 1257 CA ALA A 168 20.169 66.051 34.076 1.00 49.41 A ATOM 1258 CB ALA A 168 20.158 66.255 34.328 1.00 49.41 A ATOM 1259 C ALA A 168 20.158 66.255 34.976 1.00 49.41 A ATOM 1261 N ILE A 169 18.991 64.225 34.076 1.00 49.41 A ATOM 1261 N ILE A 169 18.991 66.251 34.598 1.00 49.41 A ATOM 1262 CA ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1262 CA ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1264 CGZ ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1264 CGZ ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1265 CGI ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.41 A ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.49 ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.49 ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.49 ATOM 1268 C ILE A 169 18.392 67.153 35.899 1.00 49.49 ATOM 1268 C ILE A 169 18.392 67.153 35.493 1.00 49.49 ATOM 1268 C ILE A 169 18.392 67.153 33.493 1.00 49.49 ATOM 1269 C ILE A 169 1										
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ATOM 1251 CB ASP A 167										
ATOM 1253 OD1 ASP A 167	MOTA	1250	CB	ASP A	167	23.156	68.417	31.292	1.00 67.98	A
ATOM 1255 C ASP A 167 20.588 66.354 30.590 1.00 51.97 A ATOM 1255 N ALA A 168 21.769 66.051 32.570 1.00 49.41 A ATOM 1257 CA ALA A 168 21.769 66.051 32.570 1.00 49.41 A ATOM 1258 CB ALA A 168 21.769 66.051 32.570 1.00 49.41 A ATOM 1259 C ALA A 168 21.119 64.225 34.076 1.00100.07 A ATOM 1259 C ALA A 168 20.158 66.525 34.0328 1.00 49.41 A ATOM 1250 O ALA A 168 20.158 66.525 34.0328 1.00 49.41 A ATOM 1260 O ALA A 168 20.790 67.541 34.598 1.00 49.41 A ATOM 1261 N ILE A 169 18.981 66.271 34.851 1.00 47.41 A ATOM 1262 CA LLE A 169 18.382 67.153 35.809 1.00 47.41 A ATOM 1263 CB ILE A 169 18.382 67.153 35.809 1.00 47.41 A ATOM 1264 CG2 ILE A 169 18.382 67.153 35.809 1.00 47.41 A ATOM 1265 CG1 ILE A 169 18.385 69.629 36.057 1.00100.07 A ATOM 1266 CD ILE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1267 C ILE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1268 O ILE A 169 17.793 66.341 36.232 1.00 47.41 A ATOM 1268 O ILE A 169 17.793 66.341 36.232 1.00 47.41 A ATOM 1269 N PHE A 170 17.437 65.364 37.091 1.00 56.10 A ATOM 1270 CA PHE A 170 17.437 65.364 37.091 1.00 56.10 A ATOM 1271 CE PHE A 170 17.279 62.070 35.907 1.00 56.10 A ATOM 1272 CG PHE A 170 17.279 62.070 35.907 1.00 52.95 A ATOM 1273 CDI PHE A 170 17.279 62.070 35.907 1.00 52.95 A ATOM 1275 CEI PHE A 170 19.936 61.315 35.809 1.00 47.41 A ATOM 1276 CEZ PHE A 170 19.936 61.151 35.298 1.00 56.10 A ATOM 1277 CP PHE A 170 19.936 61.151 35.298 1.00 56.10 A ATOM 1278 C PHE A 170 19.936 61.151 35.298 1.00 56.10 A ATOM 1278 C PHE A 170 19.936 61.151 35.298 1.00 56.10 A ATOM 1278 C PHE A 170 19.936 61.151 35.298 1.00 56.10 A ATOM 1278 C PHE A 170 19.936 61.151 35.298 1.00 56.10 A ATOM 1278 C PHE A 170 19.936 61.151 35.298 1.00 56.10 A ATOM 1280 N SER A 171 14.696 66.931 40.151 1.00 52.95 A ATOM 1278 C PHE A 170 19.936 61.151 35.298 1.00 56.10 A ATOM 1280 C SER A 171 14.946 66.6931 40.151 1.00 52.95 A ATOM 1280 C B RN A 171 14.946 66.6931 40.151 1.00 38.33 A ATOM 1280 C B RN A 171 14.966 67.758 44.775 1.00 56.09 A ATOM 1280 C B RN A 171 14.966 67.758 44.775 1.00 56.09 A ATOM		1252	OD1	ASP A	167	25.538	68.343	31.461	1.00 67.98	A
ATOM 1255 O ASP A 167 20.568 66.354 30.690 1.00 51.97 A ATOM 1256 N ALA A 168 21.769 66.5651 32.570 1.00 49.41 A ATOM 1257 CA ALA A 168 20.669 65.486 33.333 1.00 49.41 A ATOM 1258 CB ALA A 168 20.669 65.486 33.333 1.00 49.41 A ATOM 1259 C ALA A 168 20.158 66.525 34.328 1.00 49.41 A ATOM 1260 O ALA A 168 20.158 66.525 34.328 1.00 49.41 A ATOM 1260 O ALA A 168 20.790 67.541 34.598 1.00 49.41 A ATOM 1261 N LLE A 169 18.981 66.527 34.328 1.00 49.41 A ATOM 1262 CA LLE A 169 18.382 67.153 35.809 1.00 47.41 A ATOM 1263 CB LLE A 169 18.382 67.153 35.809 1.00 47.41 A ATOM 1263 CB LLE A 169 18.382 67.153 35.809 1.00 47.41 A ATOM 1265 CG LLE A 169 18.382 67.153 35.809 1.00 47.41 A ATOM 1265 CG LLE A 169 18.382 69.629 36.057 1.00100.07 A ATOM 1265 CG LLE A 169 18.325 69.629 36.057 1.00100.07 A ATOM 1265 CG LLE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1267 C LLE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1267 C LLE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1267 C A PHE A 170 17.437 65.364 37.091 1.00 47.41 A ATOM 1270 CA PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1270 CA PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1271 CB PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1271 CB PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1273 CDL PHE A 170 19.326 61.315 37.552 1.00 56.10 A ATOM 1273 CDL PHE A 170 19.326 61.316 34.994 1.00 52.95 A ATOM 1274 CD2 PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 1276 CE2 PHE A 170 19.326 66.131 36.231 1.00 47.81 ATOM 1278 C PHE A 170 19.326 66.131 36.231 1.00 47.85 ATOM 1278 C PHE A 170 19.326 66.31 35.907 1.00 52.95 A ATOM 1278 C PHE A 170 19.326 66.31 35.907 1.00 52.95 A ATOM 1278 C PHE A 170 19.326 66.31 34.994 1.00 52.95 A ATOM 1278 C PHE A 170 19.326 66.31 34.994 1.00 52.95 A ATOM 1278 C PHE A 170 19.326 66.31 34.994 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 66.31 34.994 1.00 56.10 A ATOM 1280 C PHE A 170 19.326 66.31 34.994 1.00 56.10 A ATOM 1280 C PHE A 170 19.326 66.331 34.994 1.00 56.10 A ATOM 1280 C PHE A 170 19.326 66.331 34.994 1.00 56.10 A ATOM 1280 C PHE A										
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ATOM 1260 O ALA A 168 20.158 66.525 34.328 1.00 49.41 A ATOM 1261 N ILE A 169 18.382 67.153 35.889 1.00 49.41 A ATOM 1262 CA ILE A 169 18.382 67.153 35.889 1.00 47.41 A ATOM 1263 CB ILE A 169 18.382 67.153 35.889 1.00 47.41 A ATOM 1263 CB ILE A 169 18.382 67.153 35.889 1.00 47.41 A ATOM 1264 CG2 ILE A 169 18.382 67.153 35.899 1.00 47.41 A ATOM 1265 CG1 ILE A 169 18.382 69.629 36.057 1.00100.07 A ATOM 1266 CD ILE A 169 18.382 69.629 36.057 1.00100.07 A ATOM 1266 CD ILE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1267 C ILE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1267 C ILE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1267 C ILE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1268 O ILE A 169 17.772 67.765 32.752 1.00100.07 A ATOM 1270 CA PHE A 170 16.359 64.515 37.552 1.00 47.41 A ATOM 1270 CA PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1271 CB PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1272 CG PHE A 170 17.279 62.070 35.907 1.00 52.95 A ATOM 1273 CD1 PHE A 170 17.279 62.070 35.907 1.00 52.95 A ATOM 1273 CD1 PHE A 170 17.279 62.070 35.907 1.00 52.95 A ATOM 1275 CE1 PHE A 170 18.072 61.392 34.994 1.00 52.95 A ATOM 1276 CE2 PHE A 170 19.323 61.516 36.510 1.00 52.95 A ATOM 1277 CP PHE A 170 19.325 61.516 36.510 1.00 52.95 A ATOM 1277 CP PHE A 170 19.325 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.325 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.325 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.325 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.325 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.325 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 1280 C PHE A 170 19.326 61.516 36.510 1.00 52.95 A ATOM 12						20.669	65.486	33.333		
ATOM 1261 N ILE A 169 18.981 66.271 34.598 1.00 49.41 A ATOM 1262 CA ILE A 169 18.981 66.271 34.851 1.00 47.41 A ATOM 1263 CB ILE A 169 17.881 68.479 35.193 1.00100.07 A ATOM 1264 CG2 ILE A 169 18.332 67.153 35.809 1.00 47.41 A ATOM 1265 CB ILE A 169 18.325 69.629 36.057 1.00100.07 A ATOM 1266 CD ILE A 169 18.3410 68.675 33.774 1.00100.07 A ATOM 1266 CD ILE A 169 17.722 67.765 32.752 1.00100.07 A ATOM 1267 C ILE A 169 17.193 66.341 36.232 1.00 47.41 A ATOM 1268 O ILE A 169 17.193 66.341 36.232 1.00 47.41 A ATOM 1268 O ILE A 169 17.193 66.341 36.232 1.00 47.41 A ATOM 1269 N PHE A 170 17.437 65.364 37.091 1.00 56.10 A ATOM 1271 CB PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1271 CB PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1272 CG PHE A 170 17.797 62.481 37.132 1.00 52.95 A ATOM 1273 CDI PHE A 170 17.797 62.481 37.132 1.00 52.95 A ATOM 1273 CDI PHE A 170 19.125 62.197 37.422 1.00 52.95 A ATOM 1275 CEI PHE A 170 19.125 62.197 37.422 1.00 52.95 A ATOM 1275 CEI PHE A 170 19.125 62.197 37.422 1.00 52.95 A ATOM 1276 CE2 PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1277 CP PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1277 CP PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1280 N SER A 171 15.532 64.761 39.834 1.00 56.10 A ATOM 1281 CA SER A 171 14.767 65.346 40.936 1.00 52.95 A ATOM 1282 C SER A 171 14.767 65.346 40.936 1.00 52.95 A ATOM 1282 C SER A 171 14.767 65.346 40.936 1.00 56.78 A ATOM 1284 C SER A 171 14.944 66.683 42.937 1.00 41.35 A ATOM 1284 C SER A 171 14.944 66.683 42.937 1.00 41.35 A ATOM 1285 C SER A 171 14.964 67.507 40.180 1.00 56.78 A ATOM 1286 C PRO A 172 10.409 64.678 40.827 1.00 27.85 A ATOM 1287 C PRO A 172 10.409 64.678 40.935 1.00 56.09 A ATOM 1298 C VAL A 173 11.426 67.507 40.180 1.00 56.09 A ATOM 1299 C VAL A 173 11.426 67.507 40.180 1.00 27.85 A ATOM 1299 C PRO A 172 10.409 64.678 40.424 1.00 21.94 A ATOM 1										
ATOM 1263 CB ILE A 169	ATOM	1260	0	ALA A	168	20.790	67.541	34.598	1.00 49.41	A
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ATOM 1269 N PHE A 170 16.359 65.364 37.091 1.00 56.10 A ATOM 1271 CB PHE A 170 16.359 63.223 38.115 1.00 56.10 A ATOM 1271 CB PHE A 170 16.939 63.223 38.115 1.00 52.95 A ATOM 1272 CG PHE A 170 17.797 62.481 37.132 1.00 52.95 A ATOM 1273 CD1 PHE A 170 17.279 62.070 35.907 1.00 52.95 A ATOM 1274 CD2 PHE A 170 19.125 62.197 37.422 1.00 52.95 A ATOM 1275 CEI PHE A 170 18.072 61.392 34.994 1.00 52.95 A ATOM 1276 CE2 PHE A 170 19.933 61.516 36.510 1.00 52.95 A ATOM 1277 CZ PHE A 170 19.396 61.115 35.298 1.00 52.95 A ATOM 1277 CZ PHE A 170 19.396 61.115 35.298 1.00 52.95 A ATOM 1278 C PHE A 170 15.510 65.248 38.595 1.00 56.10 A ATOM 1279 O PHE A 170 15.510 65.248 38.595 1.00 56.10 A ATOM 1280 N SER A 171 15.532 64.761 39.834 1.00 56.10 A ATOM 1281 CA SER A 171 14.767 65.346 40.936 1.00 56.78 A ATOM 1282 CB SER A 171 14.767 65.346 40.936 1.00 56.78 A ATOM 1284 C SER A 171 14.944 66.683 42.937 1.00 41.35 A ATOM 1285 O SER A 171 14.944 66.683 42.937 1.00 41.35 A ATOM 1285 O SER A 171 14.944 66.683 42.937 1.00 41.35 A ATOM 1285 O SER A 171 14.984 66.691 40.513 1.00 56.78 A ATOM 1285 O SER A 171 14.984 66.693 40.513 1.00 56.78 A ATOM 1285 O SER A 171 14.984 66.683 40.513 1.00 56.78 A ATOM 1286 C PRO A 172 11.998 64.678 40.827 1.00 27.85 A ATOM 1287 CD PRO A 172 11.998 64.678 40.827 1.00 27.85 A ATOM 1288 CA PRO A 172 11.998 64.678 40.827 1.00 27.85 A ATOM 1289 CB PRO A 172 10.076 65.991 39.742 1.00 27.85 A ATOM 1290 C PRO A 172 10.076 65.991 39.742 1.00 27.85 A ATOM 1291 C PRO A 172 10.076 65.991 39.742 1.00 27.85 A ATOM 1292 C PRO A 172 10.076 65.991 39.742 1.00 27.85 A ATOM 1293 N VAL A 173 11.333 66.934 40.523 1.00 56.09 A ATOM 1296 CG VAL A 173 11.333 66.934 42.247 1.00 51.23 A ATOM 1297 CG2 VAL A 173 11.333 66.934 42.247 1.00 51.23 A ATOM 1299 C VAL A 173 11.333 66.934 42.747 1.00 51.23 A ATOM 1299 C VAL A 173 11.333 66.934 42.747 1.00 51.23 A ATOM 1299 C VAL A 173 11.349 72.279 42.182 1.00 51.23 A ATOM 1300 N ARG A 174 10.995 73.840 40.182 1.00100.00 A ATOM 1303 CG ARG A 174 10.995 73.840 40.182 1.00100.00 A ATOM 130						17.193	66.341	36.232		
ATOM 1270 CA PHE A 170 16.359 64.515 37.552 1.00 56.10 A ATOM 1271 CB PHE A 170 16.939 63.223 38.115 1.00 52.95 A ATOM 1272 CG PHE A 170 17.797 62.481 37.132 1.00 52.95 A ATOM 1273 CD1 PHE A 170 17.279 62.070 35.907 1.00 52.95 A ATOM 1274 CD2 PHE A 170 19.125 62.197 37.422 1.00 52.95 A ATOM 1275 CE1 PHE A 170 19.125 62.197 37.422 1.00 52.95 A ATOM 1276 CE2 PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1277 CZ PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.923 61.516 36.510 1.00 52.95 A ATOM 1278 C PHE A 170 19.396 61.115 35.298 1.00 56.10 A ATOM 1278 C PHE A 170 15.510 65.248 38.595 1.00 56.10 A ATOM 1280 N SER A 171 15.532 64.761 39.834 1.00 56.78 A ATOM 1281 CA SER A 171 15.698 65.978 41.967 1.00 41.35 A ATOM 1282 CB SER A 171 15.698 65.978 41.967 1.00 41.35 A ATOM 1283 OG SER A 171 13.739 66.380 40.513 1.00 56.78 A ATOM 1284 C SER A 171 13.739 66.380 40.513 1.00 56.78 A ATOM 1286 N PRO A 172 12.456 66.013 40.543 1.00 56.78 A ATOM 1287 CD PRO A 172 11.908 64.678 40.827 1.00 27.85 A ATOM 1288 CA PRO A 172 11.908 66.931 40.511 1.00 38.33 A ATOM 1289 CB PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1290 CG PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1291 C PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1292 C PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1293 N VAL A 173 11.496 67.588 41.775 1.00 38.33 A ATOM 1294 CA VAL A 173 11.496 67.588 42.424 1.00 21.94 A ATOM 1295 CB VAL A 173 11.496 67.588 42.424 1.00 21.94 A ATOM 1296 CG VAL A 173 11.496 67.989 44.775 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 C VAL A 173 11.142 68.684 43.481 1.00 21.94 A ATOM 1290 CB RAG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1290 CB ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1300 N ARG A 174 10.865 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 10.955 73.840 40.182 1.00100.00 A ATOM 1300 CB ARG A 174 10.955 73.840 40.182 1.00100.00 A ATOM 1300 CB ARG A 174 10.955 73.840 40.182 1.00100.00 A										
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ATOM 1274 CD2 PHE A 170	ATOM	1272	CG	PHE A	170	17.797	62.481	37.132	1.00 52.95	Α
ATOM 1275 CEI PHE A 170										
ATOM 1277 CZ PHE A 170	ATOM	1275	CE1	PHE A						
ATOM 1280 N SER A 171 14.856 66.241 38.274 1.00 56.10 A ATOM 1280 N SER A 171 15.532 64.761 39.834 1.00 56.78 A ATOM 1281 CA SER A 171 14.767 65.346 40.936 1.00 56.78 A ATOM 1282 CB SER A 171 15.698 65.978 41.967 1.00 41.35 A ATOM 1283 OG SER A 171 14.944 66.683 42.937 1.00 41.35 A ATOM 1284 C SER A 171 13.739 66.380 40.513 1.00 56.78 A ATOM 1285 O SER A 171 14.981 67.507 40.180 1.00 56.78 A ATOM 1286 N PRO A 172 12.456 66.013 40.543 1.00 38.33 A ATOM 1287 CD PRO A 172 11.908 64.678 40.827 1.00 27.85 A ATOM 1288 CA PRO A 172 11.389 66.931 40.151 1.00 38.33 A ATOM 1289 CB PRO A 172 10.276 65.991 39.742 1.00 27.85 A ATOM 1290 CG PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1291 C PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1293 N VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1295 CB VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1295 CB VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1298 C VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1299 O VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1299 C VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1299 C CB RAG A 174 10.860 70.994 42.775 1.00 56.09 A ATOM 1290 CB ARG A 174 10.860 70.994 42.775 1.00 56.09 A ATOM 1300 CB ARG A 174 10.860 70.994 42.775 1.00 56.09 A ATOM 1300 CB ARG A 174 10.860 70.994 42.777 1.00 51.23 A ATOM 1300 CB ARG A 174 10.860 70.994 42.777 1.00 51.23 A ATOM 1300 CB ARG A 174 10.860 70.994 42.777 1.00 51.23 A ATOM 1300 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1305 NE ARG A 174 10.795 73.840 40.182 1.00100.00 A	MOTA	1277	CZ	PHE A	170	19.396	61.115	35.298	1.00 52.95	Α
ATOM 1281 CA SER A 171 14.767 65.346 40.936 1.00 56.78 A ATOM 1282 CB SER A 171 15.698 65.978 41.967 1.00 41.35 A ATOM 1283 OG SER A 171 15.698 65.978 42.937 1.00 41.35 A ATOM 1284 C SER A 171 13.739 66.380 40.513 1.00 56.78 A ATOM 1285 O SER A 171 14.081 67.507 40.180 1.00 56.78 A ATOM 1285 O SER A 171 14.081 67.507 40.180 1.00 56.78 A ATOM 1285 O SER A 171 14.081 67.507 40.180 1.00 56.78 A ATOM 1286 N PRO A 172 12.456 66.013 40.543 1.00 38.33 A ATOM 1287 CD PRO A 172 11.908 64.678 40.827 1.00 27.85 A ATOM 1288 CA PRO A 172 11.389 66.931 40.151 1.00 38.33 A ATOM 1290 CG PRO A 172 10.276 65.991 39.742 1.00 27.85 A ATOM 1291 C PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1291 C PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 172 10.072 68.717 40.988 1.00 38.33 A ATOM 1293 N VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1294 CA VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1295 CB VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.333 66.934 45.820 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.820 1.00 56.09 A ATOM 1299 O VAL A 173 11.333 66.934 45.820 1.00 56.09 A ATOM 1299 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.820 1.00 56.09 A ATOM 1299 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1303 CG ARG A 174 10.950 73.340 40.182 1.00100.00 A ATOM 1304 CD ARG A 174 10.975 73.840 40.182 1.00100.00 A ATOM 1305 NE ARG A 174 10.795 73.840 40.182 1.00100.00 A										
ATOM 1282 CB SER A 171 15.698 65.978 41.967 1.00 41.35 A ATOM 1283 OG SER A 171 14.944 66.683 42.937 1.00 41.35 A ATOM 1284 C SER A 171 13.739 66.380 40.513 1.00 56.78 A ATOM 1285 O SER A 171 14.081 67.507 40.180 1.00 56.78 A ATOM 1286 N PRO A 172 12.456 66.013 40.543 1.00 38.33 A ATOM 1287 CD PRO A 172 11.908 64.678 40.827 1.00 27.85 A ATOM 1288 CA PRO A 172 11.389 66.931 40.151 1.00 27.85 A ATOM 1289 CB PRO A 172 10.276 65.991 39.742 1.00 27.85 A ATOM 1290 CG PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1291 C PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1293 N VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1294 CA VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1295 CB VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1295 CG VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1298 C VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1299 O VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 O VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1299 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1290 CB ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1300 CB ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1303 CG ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1304 CD ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1305 NE ARG A 174 12.272 73.730 39.908 1.00100.00 A	ATOM	1280	N	SER A	171	15.532	64.761	39.834	1.00 56.78	A
ATOM 1284 C SER A 171 13.739 66.380 40.513 1.00 56.78 A ATOM 1285 O SER A 171 14.081 67.507 40.180 1.00 56.78 A ATOM 1286 N PRO A 172 12.456 66.013 40.543 1.00 38.33 A ATOM 1287 CD PRO A 172 11.908 64.678 40.827 1.00 27.85 A ATOM 1288 CA PRO A 172 11.389 66.931 40.151 1.00 38.33 A ATOM 1289 CB PRO A 172 10.276 65.991 39.742 1.00 27.85 A ATOM 1290 CG PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1291 C PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1292 O PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1292 O PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1294 CA VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1295 CB VAL A 173 11.426 68.684 43.481 1.00 21.94 A ATOM 1295 CB VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 O VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 O VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 O VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 O VAL A 173 11.333 67.934 42.732 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.00100.00 A	ATOM	1282	CB	SER A	171	15.698	65.978	41.967	1.00 41.35	- A
ATOM 1285 O SER A 171 14.081 67.507 40.180 1.00 56.78 A ATOM 1286 N PRO A 172 12.456 66.013 40.543 1.00 38.33 A ATOM 1287 CD PRO A 172 11.908 64.678 40.827 1.00 27.85 A ATOM 1288 CA PRO A 172 11.389 66.931 40.151 1.00 38.33 A ATOM 1289 CB PRO A 172 10.276 65.991 39.742 1.00 27.85 A ATOM 1290 CG PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1291 C PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 172 10.072 68.717 40.988 1.00 38.33 A ATOM 1293 N VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1294 CA VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1295 CB VAL A 173 11.496 68.684 43.481 1.00 21.94 A ATOM 1296 CG1 VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1296 CG1 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1298 C VAL A 173 11.568 69.992 42.956 1.00 56.09 A ATOM 1299 O VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.774 1.00 51.23 A ATOM 1301 CA ARG A 174 10.860 70.994 42.774 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.995 73.840 40.182 1.00100.00 A ATOM 1305 NE ARG A 174 12.272 73.730 39.908 1.00100.00										
ATOM 1287 CD PRO A 172 11.908 64.678 40.827 1.00 27.85 A ATOM 1288 CA PRO A 172 11.389 66.931 40.151 1.00 38.33 A ATOM 1289 CB PRO A 172 10.276 65.991 39.742 1.00 27.85 A ATOM 1290 CG PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1291 C PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 172 10.972 667.77 40.988 1.00 38.33 A ATOM 1293 N VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1294 CA VAL A 173 11.42 68.684 43.481 1.00 21.94 A ATOM 1295 CB VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1296 CG1 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 O VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1299 O VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.330 39.908 1.00100.00 A ATOM 1305 NE ARG A 174 12.272 73.730 39.908 1.00100.00										
ATOM 1289 CB PRO A 172 10.276 65.991 39.742 1.00 27.85 A ATOM 1290 CG PRO A 172 10.409 64.935 40.774 1.00 27.85 A ATOM 1291 C PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 172 10.072 68.717 40.988 1.00 38.33 A ATOM 1293 N VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1294 CA VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1295 CB VAL A 173 11.142 68.684 43.481 1.00 21.94 A ATOM 1295 CG VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1296 CG1 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1299 O VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.773 1.00 51.23 A ATOM 1301 CA ARG A 174 10.860 70.994 42.774 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.330 39.908 1.00100.00 A	MOTA	1287	CD	PRO A	172	11.908	64.678	40.827	1.00 27.85	Α
ATOM 1291 C PRO A 172 10.942 67.887 41.228 1.00 38.33 A ATOM 1292 O PRO A 172 10.072 68.717 40.988 1.00 38.33 A ATOM 1293 N VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1294 CA VAL A 173 11.142 68.684 43.481 1.00 21.94 A ATOM 1295 CB VAL A 173 11.142 68.684 43.481 1.00 21.99 A ATOM 1296 CG1 VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1296 CG1 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1299 O VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1299 O VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1305 NE ARG A 174 12.272 73.730 39.908 1.00100.00 A									1.00 27.85	
ATOM 1292 O PRO A 172 10.072 68.717 40.988 1.00 38.33 A ATOM 1293 N VAL A 173 11.496 67.758 42.424 1.00 21.94 A ATOM 1294 CA VAL A 173 11.142 68.684 43.481 1.00 21.94 A ATOM 1295 CB VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1296 CG1 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1298 C VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1299 O VAL A 173 12.922 70.083 42.732 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 11.293 72.279 42.182 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.795 73.840 40.182 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.00100.00 A										
ATOM 1294 CA VAL A 173 11.142 68.684 43.481 1.00 21.94 A ATOM 1295 CB VAL A 173 11.833 68.295 44.775 1.00 56.09 A ATOM 1296 CG1 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1299 O VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 11.293 72.279 42.182 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.755 73.840 40.182 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.00100.00 A ATOM 1305 NE ARG A 174 12.773 74.650 38.880 1.00100.00	ATOM	1292	0	PRO A	172	10.072	68.717	40.988	1.00 38.33	A
ATOM 1296 CG1 VAL A 173 11.568 69.332 45.820 1.00 56.09 A ATOM 1297 CG2 VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1299 O VAL A 173 12.922 70.083 42.732 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 11.293 72.279 42.182 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.795 73.840 40.182 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.00100.00 A ATOM 1305 NE ARG A 174 12.736 74.650 38.880 1.00100.00							68.684		1.00 21.94	
ATOM 1297 CG2 VAL A 173 11.333 66.934 45.235 1.00 56.09 A ATOM 1298 C VAL A 173 11.715 69.992 42.956 1.00 21.94 A ATOM 1299 O VAL A 173 12.922 70.083 42.732 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 11.293 72.279 42.182 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.001.00.00 A ATOM 1303 CG ARG A 174 10.795 73.840 40.182 1.001.00.00 A ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.001.00.00 A ATOM 1305 NE ARG A 174 12.736 74.650 38.880 1.001.00.00 A										
ATOM 1299 O VAL A 173 12.922 70.083 42.732 1.00 21.94 A ATOM 1300 N ARG A 174 10.860 70.994 42.747 1.00 51.23 A ATOM 1301 CA ARG A 174 11.293 72.279 42.182 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.795 73.840 40.182 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.00100.00 A ATOM 1305 NE ARG A 174 12.736 74.650 38.880 1.00100.00 A	MOTA	1297	CG2	VAL A	173	11.333	66.934	45.235	1.00 56.09	A
ATOM 1301 CA ARG A 174 11.293 72.279 42.182 1.00 51.23 A ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.795 73.840 40.182 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.00100.00 A ATOM 1305 NE ARG A 174 12.736 74.650 38.880 1.00100.00 A				VAL A	173	12.922	70.083	42.732	1.00 21.94	Α
ATOM 1302 CB ARG A 174 10.345 72.661 41.028 1.00100.00 A ATOM 1303 CG ARG A 174 10.795 73.840 40.182 1.00100.00 A ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.00100.00 A ATOM 1305 NE ARG A 174 12.736 74.650 38.880 1.00100.00 A										
ATOM 1304 CD ARG A 174 12.272 73.730 39.908 1.00100.00 A ATOM 1305 NE ARG A 174 12.736 74.650 38.880 1.00100.00 A	ATOM	1302	CB	ARG A	174	10.345	72.661	41.028	1.00100.00	A
ATOM 1305 NE ARG A 174 12.736 74.650 38.880 1.00100.00 A						12.272	73.730	39.908	1.00100.00	A

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ATOM
                                                              39.343
         1307
                 NH1 ARG A 174
                                          14.956
                                                                         1.00100.00
                                                    74.265
         1308
                 NH2 ARG A 174
                                          14.376
                                                    75.714
                                                               37.656
                                                                         1.00100.00
ATOM
                      ARG A 174
ARG A 174
ARG A 175
ATOM
         1309
                 С
                                          11.452
                                                    73.469
                                                               43.137
                                                                         1.00 51.23
АТОМ
         1310
1311
                 0
                                          11.802
                                                    74.567
                                                               42.717
                                                                         1.00 51.23
                 N
                                                    73.245
74.302
ATOM
                                                              44.422
45.419
                                                                        1.00 24.40
1.00 24.40
                                          11.221
                      ARG A 175
ATOM
         1312
                 CA
                                          11.333
                                                                                              Α
ATOM
         1313
                 CB
                      ARG A 175
                                          10.472
                                                    75.484
                                                               44.973
                                                                         1.00 46.83
                                                                                              Α
MOTA
         1314
                 CG
                      ARG A 175
                                          10.416
                                                    76.649
                                                                         1.00 46.83
                                                               45.911
ATOM
         1315
                 CD
                      ARG A 175
                                           9.769
                                                    77.818
                                                               45.203
                                                                         1.00 46.83
                                                                        1.00 46.83
1.00 46.83
1.00 46.83
                 NE
                      ARG A 175
ARG A 175
                                                    78.729
ATOM
         1316
                                           9.080
                                                               46.115
                                                                                              Α
                 CZ
                                                    79.841
80.181
                                          8.459
8.449
                                                              45.725
ATOM
         1317
                      ARG A 175
                                                              44.437
MOTA
         1318
                 NH1
                                                                                              Α
                      ARG A 175
ARG A 175
                                           7.837
ATOM
         1319
                 NH2
                                                    80.608
                                                              46.616
                                                                         1.00
                                                                               46.83
                                                                                              Α
MOTA
         1320
                 С
                                         10.808
                                                    73.652
                                                               46.703
                                                                         1.00 24.40
ATOM
         1321
                 0
                      ARG A 175
                                           9.964
                                                    72.769
                                                              46.633
                                                                         1.00 24.40
                      VAL A 176
VAL A 176
VAL A 176
                                                    74.057
73.467
72.126
                                         11.312
ATOM
         1322
                 N
                                                              47.864
                                                                        1.00 50.40
                                          10.875
                 CA
                                                                        1.00 50.40
1.00 5.23
MOTA
         1323
                                                              49.137
                                                                                             A
A
                                                              49.452
50.791
                 СВ
ATOM
         1324
                                          11.639
         1325
                 CG1
                      VAL A 176
                                                                                 5.23
ATOM
                                          11.188
                                                    71.565
                                                                         1.00
                                                                                             Α
                                                    71.110
74.403
74.536
75.040
75.936
MOTA
         1326
                 CG2
                      VAL A 176
                                          11.447
                                                               48.351
                                                                         1.00
                     VAL A 176
VAL A 176
ALA A 177
ALA A 177
                                                                         1.00 50.40
АТОМ
         1327
1328
                 C
                                         11.108
                                                              50.333
                 ŏ
ATOM
                                                                        1.00 50.40
1.00 73.68
1.00 73.68
                                         12.242
                                                              50.827
                                                                                             A
ATOM
         1329
                                         10.038
                 N
                                                              50.802
ATOM
         1330
                 CA
                                         10.125
                                                              51,955
                      ALA A 177
                                                    77.367
                                                              51.551
                                                                         1.00 18.59
MOTA
         1331
                 CB
                                           9.717
                                                                                             Α
ATOM
         1332
                 C
                      ALA A 177
                                           9.208
                                                    75.400
                                                              53.057
                                                                        1.00 73.68
                      ALA A 177
PHE A 178
PHE A 178
                                                    74.312
76.144
75.751
ATOM
         1333
                 0
                                           8.647
                                                              52.927
                                                                         1.00 73.68
                                                                        1.00100.07
ATOM
         1334
                 N
                                           9.082
                                                              54.148
         1335
MOTA
                                                              55.239
55.714
56.548
                 CA
                                           8.196
                                                                        1.00100.07
                                                                                             Α
                      PHE A 178
                                                                        1.00 30.14
ATOM
         1336
                 CB
                                                    74.313
                                           8.518
                      PHE A 178
                                                    74.172
ATOM
         1337
                 CG
ATOM
         1338
                 CD1
                      PHE A 178
                                          9.782
                                                    74.587
                                                              57.876
                                                                        1.00 30.14
                     PHE A 178
PHE A 178
PHE A 178
                                                    73.523
MOTA
         1339
                 CD2
                                         10.877
                                                              56.038
                                                                        1.00 30.14
                                                    74.343
73.279
                 CE1
ATOM
         1340
                                         10.905
                                                              58.685
                                                                        1.00 30.14
                                                                        1.00 30.14
ATOM
         1341
                 CE2
                                         12.005
                                                              56.844
         1342
                      PHE A 178
                                         12.014
                                                    73.686
                                                              58.162
                                                                        1.00 30.14
ATOM
                 CZ
MOTA
         1343
                 С
                      PHE A 178
                                          8.211
                                                    76.770
                                                                        1.00100.07
                                                              56.372
                      PHE A 178
GLN A 179
                                                    77.725
76.605
77.579
ATOM
         1344
                 o
                                           8.983
                                                              56.325
                                                                        1.00100.07
                                          7.350
7.318
                                                                        1.00 51.57
1.00 51.57
ATOM
         1345
                 N
                                                              57.370
ATOM
         1346
                      GLN A 179
                 CA
                                                              58.457
58.113
MOTA
         1347
                 CB
                      GLN A 179
                                          6.322
                                                    78.681
                                                                        1.00 99.76
         1348
                      GLN A 179
                                                    79.639
                                                              57.071
                                                                        1.00 99.76
ATOM
                 CG
                                           6.833
                     GLN A 179
GLN A 179
GLN A 179
GLN A 179
ATOM
         1349
                 CD
                                          5.748
                                                    80.537
                                                              56.544
                                                                        1.00 99.76
ATOM
         1350
                 OE1
                                          4.724
                                                    80.740
                                                              57.200
                                                                        1.00 99.76
                 NE2
                                          5.966
                                                    81.094
76.979
ATOM
         1351
                                                              55.356
59.805
                                                                        1.00 99.76
1.00 51.57
         1352
                 С
                                          6.960
ATOM
ATOM
         1353
                 ō
                      GLN A 179
                                          6.040
                                                    76.175
                                                              59.915
                                                                        1.00
                                                                               51.57
MOTA
         1354
                 N
                      VAL A 180
                                          7.693
                                                    77.362
                                                              60.835
                                                                        1.00 86.87
ATOM
         1355
1356
                 CA
                      VAL A 180
VAL A 180
                                                    76.852
76.574
                                                              62.154
62.958
                                                                        1.00 86.87
                 CB
ATOM
                                          8.669
                                                                        1.00 48.36
         1357
                 CG1
                      VAL A 180
                                                    76.074
                                                                        1.00 48.36
ATOM
                                          8.313
                                                              64.349
                                                                                             Α
                                                    75.543
77.915
MOTA
         1358
                 CG2
                      VAL A 180
                                           9.525
                                                              62.231
                                                                        1.00 48.36
                      VAL A 180
VAL A 180
GLU A 181
                                          6.541
7.072
                                                                        1.00 86.87
ATOM
         1359
                                                              62.845
                                                    78.856
77.768
78.712
ATOM
ATOM
         1360
                 0
                                                              63.437
                                                                        1.00 86.87
                                                                                             Α
         1361
                 N
                                          5.221
                                                              62.746
                                                                        1.00100.07
                      GLU A 181
                                          4.273
ATOM
         1362
                 CA
                                                                        1.00100.07
                                                                                             Α
                                                                        1.00 72.17
1.00 72.17
ATOM
         1363
                      GLU A 181
                                          2.938
                                                    78.666
                                                              62.596
                 CB
ATOM
         1364
                 CG
                      GLU A 181
                                          3.031
                                                   78.951
                                                              61.128
                                                                        1.00 72.17
1.00 72.17
                                          3.100
3.556
                                                   80.429
81.181
ATOM
         1365
                 CD
                      GLU A 181
                                                              60.840
         1366
                 OE1 GLU A 181
ATOM
                                                              61.734
59.718
                                                                                             Α
         1367
                 OE2
                     GLU A 181
                                          2.707
                                                    80.832
                                                                        1.00 72.17
ATOM
MOTA
         1368
                      GLU A 181
                                          3.978
                                                    78.365
                                                              64.784
                                                                        1.00100.07
                     GLU A 181
ASP A 182
                                                   77.320
79.254
ATOM
         1369
                 0
                                          4.394
                                                              65.290
                                                                        1.00100.07
         1370
                                          3.236
                                                                        1.00 99.56
ATOM
                 N
                                                              65.431
                                                                                             Α
         1371
                                                                        1.00 99.56
ATOM
                 CA
                      ASP A 182
                                          2.823
                                                    79.048
                                                              66.805
67.581
                                                                                             Α
         1372
                      ASP A 182
                                          2.886
                                                    80.361
                                                                        1.00100.07
ATOM
                 CB
                                                                                             Α
                                                   80.301
80.790
79.988
81.923
78.534
79.223
77.308
ATOM
         1373
                 CG
                      ASP A 182
                                          4.304
                                                              67.867
                                                                         1.00100.07
                     ASP A 182
ASP A 182
         1374
1375
ATOM
                 OD1
                                          5.052
                                                              68.473
                                                                        1.00100.07
                                          4.664
                                                              67.488
66.733
66.240
                                                                        1.00100.07
                 OD2
ATOM
                                          1.391
                                                                        1.00 99.56
1.00 99.56
ATOM
         1376
                 С
                      ASP A 182
         1377
                      ASP A 182
ATOM
         1378
                      THR A 183
                                          1.189
                                                              67.205
                                                                        1.00100.07
MOTA
ATOM
         1379
                 CA
                      THR A 183
                                         -0.129
                                                   76.702
                                                              67.180
                                                                        1.00100.07
                                                   75.216
74.709
                                                              67.606
67.744
                      THR A 183
                                         -0.071
ATOM
         1380
                 CB
                                                                        1.00100.07
                     THR A 183
                                         -1.405
                                                                        1.00100.07
         1381
                 OG1
ATOM
MOTA
         1382
                 CG2
                     THR A 183
                                          0.677
                                                    75.057
                                                              68.924
                                                                        1.00100.07
         1383
                      THR A 183
                                         -1.123
                                                   77.431
                                                              68.063
                                                                        1.00100.07
ATOM
ATOM
         1384
                      THR A 183
                                         -1.615
                                                   78.512
                                                              67.708
                                                                        1.00100.07
ATOM
         1385
                 N
                      ARG A 184
                                         -1.393
                                                   76.822
                                                              69.217
                                                                        1.00 69.50
                CA
                                         -2.334
                                                                        1.00 69.50
         1386
                      ARG A 184
ATOM
                                                   77.313
                                                              70.216
                                         -3.382
-4.731
-5.779
                                                   78.244
         1387
                CB
                      ARG A 184
                                                                        1,00100.07
ATOM
                                                              69.568
                                                                                             Α
                                                              70.288
                                                   78.353
77.375
                      ARG A 184
         1388
                CG
                                                                        1.00100.07
ATOM
                      ARG A 184
                                                                        1.00100.07
ATOM
         1389
                CD
                NE
                      ARG A 184
                                         -7.057
                                                   77.467
                                                              70.440
MOTA
         1390
                                                                        1.00100.07
```

MOTA MOTA MOTA MOTA MOTA MOTA	1391 1392 1393 1394 1395 1396	CZ NH1 NH2 C O N	ARG A ARG A ARG A LEU A	184 184 184 184 185	-8.110 -8.056 -9.219 -3.021 -3.281 -3.315	76.672 75.707 76.834 76.056 75.096 76.099	70.234 69.322 70.953 70.750 70.013 72.041	1.00100.07 1.00100.07 1.00100.07 1.00 69.50 1.00 69.50	A A A A
ATOM ATOM	1397 1398	CA CB	LEU A	185	-3.944 -5.447	75.016 74.934	72.775	1.00100.07	A A
ATOM ATOM	1399 1400		LEU A	. 185	-6.248 -7.725	75.931 75.600	73.343	1.00 86.73 1.00 86.73	A A
ATOM ATOM	1401 1402	CD2 C	LEU A		-5.800 -3.293	75.865 73.641	74.810 72.709	1.00 86.73 1.00100.07	A A
ATOM ATOM	1403 1404	N O	LEU A		-3.091 -2.973	73.043 73.175	71.649 73.910	1.00100.07	A A
ATOM	1405	CA	GLY A	186	-2.315	71.908	74.137	1.00100.07	Α
ATOM ATOM	1406 1407	С 0	GLY A	. 186	-1.383 -0.848	72.200 71.295	75.302 75.959	1.00100.07	A A
MOTA MOTA	1408 1409	N CA	GLN A		-1.226 -0.386	73.504 74.080	75.546 76.597	1.00100.07	A A
MOTA MOTA	1410 1411	CB CG	GLN A	. 187	0.836 1.811	73.186 73.705	76.860 77.904	1.00 98.59 1.00 98.59	A A
ATOM	1412	CD	GLN A	. 187	2.936	72.722	78.190	1.00 98.59	A
ATOM ATOM	1413 1414	OE1 NE2	GLN A		3.609 3.146	72.250 72.414	77.276 79.464	1.00 98.59 1.00 98.59	A A
ATOM ATOM	1415 1416	C 0	GLN A		0.065 -0.259	75.445 75.827	76.086 74.960	1.00100.07	A A
ATOM	1417	N CA	ARG A	. 188	0.820	76.176 77.503	76.899 76.506	1.00 99.87	A
ATOM ATOM	1418 1419	CB	ARG A	188	2.149	78.112	77.612	1.00 99.87	A A
ATOM ATOM	1420 1421	CD	ARG A		1.317 2.167	78.786 79.285	78.700 79.857	1.00100.07	A A
ATOM ATOM	1422 1423	NE CZ	ARG A		1.411 1.877	80.204 80.766	80.707 81.820	1.00100.07	A A
MOTA	1424	NH1	ARG A	188	3.111	80.505	82.239	1.00100.07	A
ATOM ATOM	1425 1426	NH2 C	ARG A	188	1.107 1.980	81.602 77.592	82.509 75.153	1.00100.07 1.00 99.87	A A
ATOM ATOM	1427 1428	N O	ARG A		2.854 1.559	76.787 78.587	74.831 74.374	1.00 99.87	A A
ATOM ATOM	1429 1430	CA CB	THR A		2.077	78.863 80.348	73.033 72.881	1.00100.07	A A
ATOM	1431	0G1	THR A	189	1.332	81.167	72.741	1.00100.07	A
ATOM ATOM	1432 1433	CG2 C	THR A	189	3.408 3.238	80.534 77.991	71.651 72.568	1.00100.07	A A
ATOM ATOM	1434 1435	O N	THR A		3.096 4.382	77.227 78.137	71.605 73.240	1.00100.07 1.00 96.21	A A
ATOM ATOM	1436 1437	CA CB	ASP A		5.588 5.867	77.376 76.334	72.926 74.019	1.00 96.21 1.00 99.97	A A
ATOM	1438	CG	ASP A	190	6.367 7.403	76.943	75.313	1.00 99.97	A A
MOTA MOTA	1439 1440	OD2	ASP A	190	5.732	77.643 76.708	75.273 76.368	1.00 99.97	A
ATOM ATOM	1441 1442	0	ASP A		5.452 5.961	76.630 77.051	71.616 70.580	1.00 96.21 1.00 96.21	A A
MOTA MOTA	1443 1444	N CA	LEU A		4.745 4.483	75.510 74.620	71.706 70.594	1.00 88.88 1.00 88.88	A A
ATOM ATOM	1445 1446	CB CG	LEU A	191	3.076 2.676	74.051 73.433	70.700 72.032	1.00 82.14 1.00 82.14	A A
ATOM	1447	CD1	LEU A	191	1.383	72.671	71.805	1.00 82.14	A
ATOM ATOM	1448 1449	С	LEU A	191	3.769 4.660	72.508 75.214	72.566 69.212	1.00 82.14 1.00 88.88	A A
ATOM ATOM	1450 1451	O N	LEU A ASP A		4.358 5.134	76.388 74.360	68.967 68.310	1.00 88.88	A A
MOTA MOTA	1452 1453	CA CB	ASP A		5.383 6.744	74.718 74.172	66.927 66.494	1.00 97.03 1.00100.07	A A
MOTA	1454	CG	ASP A	192	7.785	74.256	67.596	1.00100.07	A
ATOM ATOM	1455 1456	OD2		192	8.067 8.321	75.379 73.198	68.066 67.994	1.00100.07	A A
MOTA MOTA	1457 1458	С 0	ASP A		4.294 3.673	74.099 73.110	66.052 66.439	1.00 97.03 1.00 97.03	A A
ATOM ATOM	1459 1460	N CA	LYS A		4.066	74.685 74.182	64.880 63.936	1.00 30.13 1.00 30.13	A A
MOTA	1461	CB	LYS A	193	1.833	75.071	63.963	1.00 88.42	A
ATOM ATOM	1462 1463	CG CD	LYS A LYS A	193	0.919 0.025	74.908 76.119	62.762 62.617	1.00 88.42 1.00 88.42	A A
ATOM ATOM	1464 1465	CE NZ	LYS A		-0.670 -1.297	76.138 77.462	61.280 61.048	1.00 88.42 1.00 88.42	A A
ATOM ATOM	1466 1467	C O	LYS A		3.670 3.632	74.183 75.212	62.527 61.836	1.00 30.13 1.00 30.13	A A
ATOM	1468	N	LEU A	194	4.205	73.030	62.105	1.00 31.31	A
MOTA MOTA	1469 1470	CA CB	LEU A	194	4.850 5.268	72.873 71.422	60.790 60.604	1.00 31.31	A A
ATOM ATOM	1471 1472	CG CD1	LEU A		6.671 7.490	71.285 70.294	60.020 60.834	1.00 34.90 1.00 34.90	A A
ATOM ATOM	1473 1474	CD2 C		194	6.566 3.964	70.857 73.315	58.590 59.630	1.00 34.90 1.00 31.31	A A
		-							

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1475 1476 14778 1478 1481 1482 1483 1484 1485 1489 1491 1493 1495 1497 1497 1499	O N CA CB CGC C O N CA CB CCD C C O N CA CB CCD N CA CB CCD N CA CB CCD NE CCD NH1 NH2	LEU A THR A THR A THR A THR A THR A LEU A LEU A LEU A LEU A ARG A	195 195 195 195 195 196 196 196 196 196 197 197 197 197 197	2.958 4.321 3.510 3.084 2.132 4.301 4.193 3.767 5.217 5.933 6.714 7.990 5.669 5.605 4.207 5.4337 4.976 4.749 4.243 4.755 4.2582 4.340 3.755 4.703	73.993 72.941 73.364 74.840 75.199 75.756 73.264 73.942 72.424 72.366 71.281 69.100 69.706 72.265 71.433 73.146 73.253 74.644 75.804 77.010 78.285 79.457 80.592	59.844 58.404 57.461 56.433 57.446 57.390 54.966 55.906 55.906 55.751 54.729 55.216 53.108 55.227 50.402 51.237 50.402	1.00 31.31 1.00 32.61 1.00 82.69 1.00 82.69 1.00 82.61 1.00 32.61 1.00 44.55 1.00 44.55 1.00 31.90 1.00 31.90 1.00 34.55 1.00 44.55 1.00 44.55 1.00 44.55 1.00 44.55 1.00 44.55 1.00 44.55	A A A A A A A A A A A A A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1500 1501 1502 1503 1504 1505 1506	C N CA CB CG2 CG1	ARG A ARG A ILE A ILE A ILE A ILE A ILE A	197 197 198 198 198 198 198	5.129 4.317 6.365 6.876 6.366 6.661 7.039	72.167 71.298 72.221 71.260 69.829 68.896 69.321	49.986 49.667 49.491 48.508 48.798 47.640 50.082	1.00 46.84 1.00 46.84 1.00 33.53 1.00 31.98 1.00 31.98 1.00 31.98	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1507 1508 1509 1510 1511 1512 1513 1514	CD C O N CA CB CG CD2	ILE A ILE A TRP A TRP A TRP A TRP A TRP A	198 198 199 199 199	7.115 6.472 6.077 6.622 6.251 7.323 6.687 6.225	67.786 71.698 70.905 72.991 73.655 74.658 75.861 76.980	50.217 47.114 46.284 46.875 45.632 45.251 44.709 45.466	1.00 31.98 1.00 33.53 1.00 33.53 1.00100.07 1.00100.07 1.00 99.57 1.00 99.57	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1515 1516 1517 1518 1519 1520 1521	CE2 CE3 CD1 NE1 CZ2 CZ3 CH2	TRP A	199 199 199 199 199 199	5.583 6.292 6.323 5.657 5.005 5.719 5.084	77.852 77.330 76.086 77.280 79.064 78.532 79.386	44.565 46.823 43.421 43.322 44.976 47.232 46.309	1.00 99.57 1.00 99.57 1.00 99.57 1.00 99.57 1.00 99.57 1.00 99.57	A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1522 1523 1524 1525 1526 1527 1528 1529	C O N CA CB OG1 CG2 C	TRP A TRP A THR A THR A THR A THR A THR A THR A	199 200 200 200 200 200 200	5.790 4.617 6.692 6.319 6.737 6.139 6.291 6.976	72.979 72.644 72.835 72.236 73.178 74.467 72.627 70.870	44.352 44.209 43.391 42.111 40.936 41.122 39.594 41.935	1.00100.07 1.00100.07 1.00 68.48 1.00 68.48 1.00 87.15 1.00 87.15 1.00 87.15	A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1530 1531 1532 1533 1534 1535 1536	O N CA CB CG OD1 OD2	THR A ASP A ASP A ASP A ASP A ASP A	200 201 201 201 201 201 201	7.706 6.692 7.241 6.380 6.183 5.102 7.117	70.386 70.252 68.964 67.867 68.052 68.533 67.738	42.806 40.800 40.483 41.088 42.561 42.952 43.327	1.00 68.48 1.00 31.77 1.00 31.77 1.00 88.26 1.00 88.26 1.00 88.26 1.00 88.26	- A A A A A A A
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1537 1538 1539 1540 1541 1542 1543 1544	C O N CA C O N CA	ASP A ASP A GLY A GLY A GLY A GLY A SER A SER A	201 202 202 202 202 203	7.385 6.566 8.463 8.681 7.467 6.430 7.580 6.497	68.754 69.236 68.059 67.736 66.868 67.366 65.581 64.618	38.980 38.169 38.618 37.230 36.954 36.485 37.302 37.102	1.00 31.77 1.00 31.77 1.00 58.84 1.00 58.84 1.00 58.84 1.00 66.27 1.00 66.27	A A A A A A
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	1545 1546 1547 1548 1549 1550 1551 1552 1553	CB OG C O N CA CB	SER A SER A SER A VAL A VAL A VAL A	203 203 203 203 204 204 204 204	7.030 7.849 5.691 4.597 6.243 5.610 6.607 7.944 6.793	63.309 62.622 64.315 64.856 63.465 63.032 62.209 62.046 62.879	36.511 37.432 38.366 38.530 39.243 40.508 41.417 40.738 42.764	1.00 89.23 1.00 89.23 1.00 66.27 1.00 42.74 1.00 42.74 1.00 21.15 1.00 21.15	A A A A A A A
ATOM ATOM ATOM ATOM ATOM	1554 1555 1556 1557 1558	C O N CA CB	VAL A VAL A THR A THR A	204 204 205 205	4.972 5.099 4.293 3.617 2.108	64.117 65.314 63.684 64.619 64.347	41.390 41.127 42.452 43.348 43.399	1.00 42.74 1.00 42.74 1.00 21.70 1.00 21.70 1.00 74.21	A A A A

ATOM ATOM ATOM ATOM	1559 1560 1561 1562	OG1 CG2 C		205 205	1.876 1.521 4.120 4.462	63.080 64.351 64.675 63.656	44.030 41.985 44.794 45.402	1.00 74.21 1.00 74.21 1.00 21.70 1.00 21.70	A A A
ATOM ATOM ATOM	1563 1564 1565	N CD CA	PRO A 2 PRO A 2	206 206	4.121 3.336 4.563	65.890 67.024 66.175	45.368 44.848 46.725	1.00 17.57 1.00 23.29 1.00 17.57	A A A
ATOM ATOM	1566 1567	CB CG	PRO A 2	206	3.730 3.667	67.384 68.108	47.102 45.834	1.00 23.29 1.00 23.29	A A
ATOM ATOM	1568 1569	C O	PRO A 2	206	4.290 5.221	65.002 64.344	47.621 48.070	1.00 17.57 1.00 17.57	A A
MOTA MOTA	1570 1571	N CA	LEU A 2	207	3.012 2.637	64.740 63.621	47.883 48.739	1.00 66.62 1.00 66.62	A A
ATOM ATOM	1572 1573	CB CG	LEU A 2		1.264 0.807	63.075 61.885	48.348 49.197	1.00100.07 1.00100.07	A A
MOTA MOTA	1574 1575		LEU A 2		0.394 -0.347	62.392 61.153	50.572 48.516	1.00100.07	A A
ATOM ATOM	1576 1577	C O	LEU A 2 LEU A 2		3.677 4.303	62.516 62.063	48.567 49.533	1.00 66.62 1.00 66.62	A A
MOTA MOTA	1578 1579	N CA	GLU A 2	208	3.861 4.828	62.104 61.073	47.316 46.987	1.00 83.94 1.00 83.94	A A
ATOM ATOM	1580 1581	CB CG	GLU A 2	208	4.791	60.763	45.484 44.974	1.00 86.72 1.00 86.72	A A
ATOM ATOM	1582 1583	CD	GLU A 2	208	3.461 4.193	59.883 58.946	43.485	1.00 86.72 1.00 86.72	A A
ATOM ATOM	1584 1585	OE2		208	2.729 6.223	60.544	42.715	1.00 86.72	A
ATOM	1586	0	GLU A 2	208	6.928	61.548	47.386	1.00 83.94	A
MOTA	1587 1588	N CA	ALA A 2	209	6.613 7.929	62.732	46.906	1.00 96.12	A A
ATOM ATOM	1589 1590	CB	ALA A 2 ALA A 2	209	8.053 8.153	64.748 63.282	46.668	1.00 27.97 1.00 96.12	A A
MOTA MOTA	1591 1592	N	ALA A 2 LEU A 2	210	9.192 7.165	62.824 63.771	49.213 49.480	1.00 96.12 1.00 44.94	A A
MOTA MOTA	1593 1594	CA CB	LEU A 2		7.227 5.929	63.812 64.413	50.934 51.482	1.00 44.94 1.00 31.43	A A
ATOM ATOM	1595 1596	CG CD1	LEU A 2		5.568 6.619	64.066 64.625	52.931 53.863	1.00 31.43 1.00 31.43	A A
MOTA MOTA	1597 1598	CD2 C	LEU A 2 LEU A 2		4.174 7.464	64.600 62.430	53.278 51.554	1.00 31.43 1.00 44.94	A A
ATOM ATOM	1599 1600	N O	LEU A 2 ASN A 2	210	8.495 6.508	62.197 61.519	52.201 51.374	1.00 44.94	A A
ATOM ATOM	1601 1602	CA CB	ASN A 2	211	6.648 5.497	60.172 59.264	51.927 51.479	1.00100.07	A A
ATOM ATOM	1603 1604	CG	ASN A 2	211	4.154 3.527	59.701 60.633	52.033 51.527	1.00100.07	A A
MOTA MOTA	1605 1606		ASN A 2	211	3.711 7.959	59.030 59.609	53.089 51.412	1.00100.07	A A
ATOM ATOM	1607 1608	O N	ASN A 2 GLN A 2	211	8.701 8.233	58.944 59.883	52.137	1.00100.07	A A
MOTA	1609	CA	GLN A 2	212	9.457 9.571	59.426 60.013	49.522	1.00 85.92	A A
ATOM	1610	CB	GLN A 2 GLN A 2	212	10.776	59.549	48.120	1.00100.07	A
ATOM	1612	OE1		212	9.550	58.736 59.151	46.124	1.00100.07	A A
ATOM ATOM	1614 1615	C NE2	GLN A 2	212	11.016	57.571 59.930	45.971	1.00100.07 1.00 85.92	A A
ATOM ATOM	1616 1617	N	GLN A 2 ALA A 2	213	11.534 10.516	59.186 61.200	50.703	1.00 85.92 1.00 41.35	A
MOTA MOTA	1618 1619	CA CB	ALA A 2	213	11.546 11.154	61.840 63.271	51.581	1.00 41.35 1.00 45.50	A A
ATOM ATOM	1620 1621	C 0	ALA A 2 ALA A 2	213	11.828 12.922	61.112 60.579	52.883 53.088	1.00 41.35 1.00 41.35	A A
ATOM ATOM	1622 1623	N CA	VAL A 2	214	10.829 10.925	61.112 60.472	53.761 55.069	1.00 83.40 1.00 83.40	A A
ATOM ATOM	1624 1625	CB CG1	VAL A 2		9.521 9.196	60.254 61.363	55.678 56.670	1.00 48.39 1.00 48.39	A A
ATOM ATOM	1626 1627	CG2 C	VAL A 2		8.486 11.650	60.244 59.136	54.582 55.029	1.00 48.39 1.00 83.40	A A
MOTA MOTA	1628 1629	O N	VAL A 2 ALA A 2		12.493 11.311	58.839 58.339	55.881 54.026	1.00 83.40 1.00 68.64	A A
ATOM ATOM	1630 1631	CA CB	ALA A 2 ALA A 2	215	11.905 11.617	57.024 56.527	53.843 52.434	1.00 68.64 1.00100.07	A A
ATOM ATOM	1632 1633	C	ALA A 2 ALA A 2	215	13.401 13.874	57.036 56.577	54.093 55.129	1.00 68.64 1.00 68.64	A A
ATOM ATOM	1634 1635	N CA	ILE A 2	216	14.136 15.585	57.576 57.651	53.129 53.204	1.00 99.55 1.00 99.55	A A
ATOM ATOM	1636 1637	CB CG2	ILE A 2	216	16.104 17.570	58.623 58.348	52.160 51.892	1.00 59.90 1.00 59.90	A A
MOTA	1638	CG1	ILE A 2	216	15.296 15.592	58.447	50.872 49.835	1.00 59.90	A A
ATOM ATOM	1639 1640	CD	ILE A 2	216	16.060	59.487 58.067	54.590	1.00 99.55	A
ATOM ATOM	1641 1642	<b>И</b> О	ILE A 2 LEU A 2		16.869 15.547	57.375 59.193	55.208 55.074	1.00 99.55 1.00 64.91	A A

ATOM ATOM ATOM ATOM ATOM	1643 1644 1645 1646 1647	CA LEU A 2 CB LEU A 2 CG LEU A 2 CD1 LEU A 2 CD2 LEU A 2	17 14.980 17 14.969 17 16.343	61.401 61.850	56.394 56.762 58.195 58.656 58.228	1.00 64.91 1.00 37.93 1.00 37.93 1.00 37.93 1.00 37.93	A A A A
ATOM ATOM	1648 1649	C LEU A 2 O LEU A 2	17 16.632		57.387 58.164	1.00 64.91 1.00 64.91	A A
ATOM ATOM	1650 1651	N LYS A 2 CA LYS A 2			57.345 58.236	1.00 40.33	A A
ATOM	1652	CB LYS A 2	18 12.867	56.267	57.932	1.00100.07	A
ATOM ATOM	1653 1654	CG LYS A 2 CD LYS A 2		55.002 54.839	57.080 56.237	1.00100.07	A A
ATOM ATOM	1655 1656	CE LYS A 2 NZ LYS A 2		53.728 53.558	55.201 54.307	1.00100.07	A A
ATOM	1657	C LYS A 2	18 15.313	55.737	58.027	1.00 40.33	A
ATOM ATOM	1658 1659	O LYS A 2 N GLU A 2	19 15.509	55.237 55.399	58.980 56.752	1.00 40.33 1.00 47.87	A A
MOTA MOTA	1660 1661	CA GLU A 2 CB GLU A 2		54.370 54.331	56.286 54.759	1.00 47.87 1.00 87.82	A A
ATOM ATOM	1662 1663	CG GLU A 2 CD GLU A 2	19 17.156	53.201 53.206	54.110 52.595	1.00 87.82 1.00 87.82	A A
MOTA	1664	OE1 GLU A 2	19 15.837	53.058	52.115	1.00 87.82	A
ATOM ATOM	1665 1666	OE2 GLU A 2 C GLU A 2		53.364 54.641	51.882 56.762	1.00 87.82 1.00 47.87	A A
ATOM	1667 1668	O GLU A 2	19 18.588	53.716	57.096 56.779	1.00 47.87 1.00 65.57	Α
ATOM ATOM	1669	CA HIS A 2	20 19.570	55.912 56.281	57.237	1.00 65.57	A A
ATOM ATOM	1670 1671	CB HIS A 2 CG HIS A 2		57.739 58.005	56.929 55.489	1.00 34.75 1.00 34.75	A A
MOTA MOTA	1672 1673	CD2 HIS A 2 ND1 HIS A 2	20 19.422	58.576 57.700	54.516 54.912	1.00 34.75 1.00 34.75	A A
ATOM	1674	CE1 HIS A 2	20 21.369	58.076	53.645	1.00 34.75	A
ATOM ATOM	1675 1676	NE2 HIS A 2 C HIS A 2		58.611 56.090	53.380 58.735	1.00 34.75 1.00 65.57	A A
ATOM ATOM	1677 1678	O HIS A 2 N LEU A 2		55.380 56.748	59.255 59.422	1.00 65.57 1.00 50.48	A A
ATOM	1679	CA LEU A 2	21 18.591	56.645	60.869	1.00 50.48	Α
ATOM ATOM	1680 1681	CB LEU A 2 CG LEU A 2	21 16.772	56.994 58.342	61.308 61.941	1.00 48.41 1.00 48.41	A A
ATOM ATOM	1682 1683	CD1 LEU A 2. CD2 LEU A 2.		58.559 59.501	63.162 60.954	1.00 48.41 1.00 48.41	A A
MOTA	1684	C LEU A 2	21 18.941	55.227 55.030	61.336 62.272	1.00 50.48 1.00 50.48	A A
MOTA MOTA	1685 1686	O LEU A 2 N ASN A 2	22 18.359	54.238	60.666	1.00 79.78	A
ATOM ATOM	1687 1688	CA ASN A 2: CB ASN A 2:		52.845 51.948	61.014 60.042	1.00 79.78 1.00 64.26	A A
MOTA MOTA	1689 1690	CG ASN A 2 OD1 ASN A 2		52.115 52.007	60.167 61.261	1.00 64.26 1.00 64.26	A A
ATOM	1691	ND2 ASN A 2	22 15.662	52.381	59.050	1.00 64.26	A
ATOM ATOM	1692 1693	C ASN A 2		52.466 51.742	61.093 61.995	1.00 79.78 1.00 79.78	A A
ATOM ATOM	1694 1695	N TYR A 2		52.971 52.670	60.166 60.169	1.00 81.32 1.00 81.32	A A
ATOM	1696	CB TYR A 2	23 23.029	53.617	59.234 57.769	1.00 81.85	A
ATOM ATOM	1697 1698	CG TYR A 2 CD1 TYR A 2	23 22.719	53.484 52.249	57.137	1.00 81.85 1.00 81.85	A A
ATOM ATOM	1699 1700	CE1 TYR A 2. CD2 TYR A 2.		52.132 54.606	55.795 57.009	1.00 81.85 1.00 81.85	A A
MOTA MOTA	1701 1702	CE2 TYR A 2		54.502 53.261	55.669 55.064	1.00 81.85 1.00 81.85	- A A
ATOM	1703	OH TYR A 2	23 21.868	53.139	53.719	1.00 81.85	Α
MOTA MOTA	1704 1705	C TYR A 2	23 23.876	52.786 52.152	61.574 61.874	1.00 81.32 1.00 81.32	A A
ATOM ATOM	1706 1707	N PHE A 2: CA PHE A 2:		53.589 53.765	62.436 63.799	1.00 65.20 1.00 65.20	A A
MOTA	1708	CB PHE A 2	24 22.110	54.988 56.303	64.473 63.781	1.00 70.91 1.00 70.91	A A
ATOM ATOM	1709 1710	CD1 PHE A 2	24 21.497	56.852	62.880	1.00 70.91	A
ATOM ATOM	1711 1712	CD2 PHE A 2: CE1 PHE A 2:		56.977 58.043	64.015 62.224	1.00 70.91 1.00 70.91	A A
ATOM ATOM	$\frac{1713}{1714}$	CE2 PHE A 2: CZ PHE A 2:		58.168 58.701	63.362 62.463	1.00 70.91 1.00 70.91	A A
MOTA	1715	C PHE A 2	24 22.515	52.510 52.576	64.644	1.00 65.20 1.00 65.20	A A
ATOM ATOM	1716 1717	O PHE A 2 N ALA A 2	25 22.621	51.362	63.987	1.00 42.35	A
ATOM ATOM	1718 1719	CA ALA A 2: CB ALA A 2:		50.070 49.004	64.618 63.547	1.00 42.35	A A
ATOM	1720	C ALA A 2: O ALA A 2:	25 23.563	49.668 50.485	65.522 66.297	1.00 42.35 1.00 42.35	A A
ATOM ATOM	1721 1722	N ASN A 2	26 23.981	48.404	65.421	1.00 61.29	A
MOTA MOTA	1723 1724	CA ASN A 2: CB ASN A 2:		47.880 46.352	66.240 66.127	1.00 61.29 1.00100.07	A A
ATOM ATOM	1725 1726	CG ASN A 2: OD1 ASN A 2:		45.635 44.402	67.257 67.322	1.00100.07 1.00100.07	A A
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